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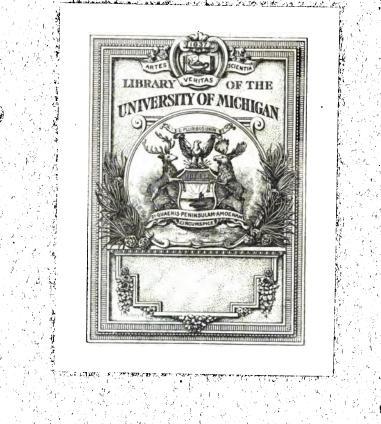
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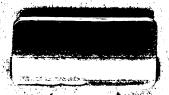
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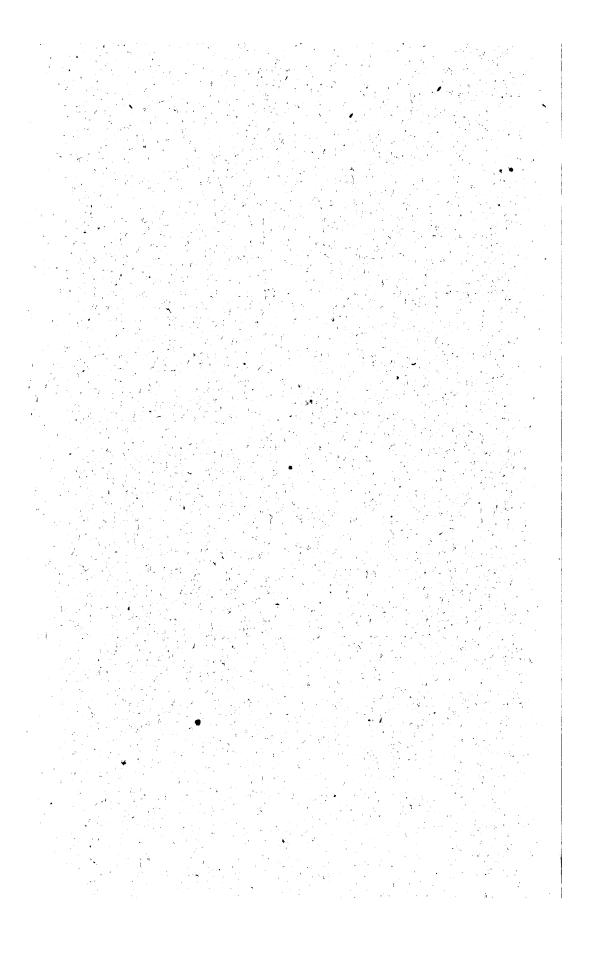


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THE

GOAL REGIONS

OF

PENNSYLVANIA;

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GENERAL GEOLOGICAL, HISTORICAL & STATISTICAL REVIEW

OF THE

ANTHRACITE COAL DISTRICTS.

Bilustrated with Colored Maps & Engravings,

AND CONTAINING NUMEROUS STATISTICAL TABLES.

EDITED BY ELE BOWEN,

Associate Editor of the Miners' Journal.

"I will teach you to pierce the bowels of the earth, and from the caverns of the mountains bring out treasures which will bring strength to our hands, and subject all nature to our use and pleasure."—Dr. Johnson.

POTTSVILLE, PA.

1848.

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COAL REGIONS

of 26783

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E. N. CARVALHO & CO.

1848

Entered according to Act of Congress, by E. Bowen, in the Clerk's Office of the Eastern District of Pennsylvania.—1848.

PRINTED AT THE MINERS' JOURNAL OFFICE.

PRELIMINARY REMARKS.

"Words before blows."

In submitting the annexed pages to the public, we would not be misunderstood. The only object contemplated was the combination of such facts and statistics into a book of reference, as might prove convenient and useful to the man of business and others. While the necessary data to carry out this object was being collected, (and which—we may observe—required much time, trouble and patience) we employed our leisure moments in preparing the brief sketches herein contained.

We are duly sensible of the fact, that however much we may have desired to render the perusal of these pages interesting to the reader, the object has not been half gained. And when we, therefore, (supposing oneself arraigned before the bar of public opinion) sincerely hope that mercy may season the justice of our sentence, (the only hope of the guilty!) we do so with an abhorrence of the popularity which, under similar circumstances, the practice has obtained.

But although under an engagement during the preparation of this little work, which admitted neither cossation of duties nor diminution of time, we found such favor and assistance from friends, whom it would be ungrateful not to name in

this connection.

Of these, we most particularly mention our indefatigable associate, (Mr. Carvalho,) who promptly entered into this publication with us at the outset, and who has not only satisfactorily performed the duties mutually assigned him, but has rendered important assistance in the department confided to us.

We are under obligations to Benjamin Bannan, Esq., (for twenty years past the editor of the Miners' *Journal*,) for the unmerited access which he kindly afforded us to the files of that valuable journal. We are also indebted to Richard Lee, Samuel B. Fisher, Wm. H. Mann, F. W. Hughes, Esqrs., Mr. Lewis, Mr. John

Clayton, and others for favors of various kinds in the production of this book.

Of the authors quoted, we are, first, particularly indebted to the works of Mr. Richardson, Prof. Lyell, and the elementary treatise of Dr. Rushenburg, which we have followed in order in our geological essay; next to Wm. F. Roberts, Esq. ; to the valuable Reports of Mr. Packer to the Legislature of Pennsylvania, the annual Reports of various Canal and Railroad Companies, and, last, the invaluable and learned work of Mr. Taylor, just published.

The reader will meet with a great number of typographical and other blunders, which he will have to excuse—there being no other alternative, that we can see. The matter was prepared in the greatest haste, and the proof sheets read amids

confusion and a multiplicity of other matters.

DEDICATION.

TO MR. BENJAMIN BANNAN.

DEAR STR,—The position your have, for the last twenty years, occupied as the able and enterprising Editor of the Miners' Journal, and your untiring zeal invariably evinced thoughout this long period, in promoting the best interests of the Coal Trade of Pennsylvania, associates your name with every thing interesting connected with the Coal Regions: Permit us, therefore, to dedicate this work to you, as a trifling acknowledgment of the great assistance you have afforded us in the material created by your labors.

With sentiments of the highest esteem,

We remain, &c.
THE AUTHORS.

REVIEW OF THE COAL REGIONS

OF PENNSYL VANIA.

GENERAL GEOLOGICAL REVIEW.

CHAPTER I.

Formation of the Earth; Crust of the Earth; Internal Heat; Actions of Volcances, Earthquakes and Floods; Antiquity of the Earth; Primeval Climate; Vegetation of the Primeval Earth; Coal formation; Vegetable Origin of Coal: Theory of Dr. Buckland; Theory of Dr. Lyell; Deposition of Coal; Propositions of Prof. Richardson; Experiment of Dr. Göppart; Stratification of the Earth; Influence of the Atmosphere, Rains, Frosts, Floods, &c. upon the surface of the Earth: General Topographical Review, &c. Recapitulation.

With respect to the cause or causes which have brought about the things we are about to consider, it is much to be regretted that there is little authentic and positive data, beyond that provided by the science of Geology, which, though comparatively of recent origin, has done much to reveal the sublime laws of Nature, and to develop the wisdom of the Supreme Being.

We are all wont to judge merit by the works which it has produced; and if praise can be awarded to the General who has successfully achieved a victory under unfavorable chances; or to a builder whose fabrics are faultless in their architecture and finish: or to a states-

their architecture and finish; or to a statesman whose eloquence and wisdom are allpowerful in the Senate: what is not due to that Iufinite Being, from whom the earth, and all which it contains, hath sprung:

"Who sees through all space, and yet in all the same; Great in the small, as in the etherial flame: Lives through all life, extends through all extent; Spreads undivided, operates unspent; —Warms in the sun, refreshes in the breeze; Glows in the stars, and blossoms in the trees; Breathes in our soul, informs our mortal part As full, as perfect in a hair as heart."

—In the limited number of pages alloted to us in the consideration of these important and interesting Regions, it can scarcely be expected of us to present a full and complete view of its resources, formation, and characteristics. Such investigation must be left for abler hands, and for more ample room than is comprized within the limits of these pages. We shall therefore content ourselves with the presentation of such propositions only as are deemed essential to a correct appreciation of the subject.

Regarding the formation of the earth, perhaps the most philosophic hypothesis laid down, is that of the late Sir Wm. Herschell, and which is called the Nebular Theory.— Little can be deduced from the Bible, the oldest book preserved bearing upon the primeval earth. We are told that "in the beginning God made the heavens and the earth;" that "the earth was void and without shape, and that darkness dwelt over the face of the waters." With these words we can perceive nothing inconsistent in the theory of the eminent astronomer, which was based upon personal observations, forming mirrors, so to speak, reflective of the great laws of Nature. He was led to observe that every portion of that which is considered universal space, abounds in large expansions of attenuated matter, reflective of light, and which he termed nebulæ. These appeared, from time to

time, in different stages of condensation, and in various shapes, until, finally, they graduated into orbs of light,—suns and systems like our own. Our whole solar system is believed to have been thus created;—and the sun itself, which is supposed to be the centre of the system, having also primarily existed in the shape of nebulæ, must have thrown off, in the progress of condensation, the various planets of the sphere. The earth, therefore, having been thus formed out of gaseous vapor, soon changed to a fluid, and thence into a solid state. Being round, the outside was cooled, or frozen like ice upon the water; and as soon as this occurred, the general physical formations of the earth must have commenced, and the surrounding atmosphere, while it contributed to preserve the hardened state of the crust, also conveyed new substances, which in due time resolved themselves into land and water. Thence originated those germs of animal and vegetable life, which have presented those great phenomena which it is the peculiar province of science to explore.

Thus, it will be seen, that all which the earth contains, and the earth itself, has its origin in mere vapor; and no body, however hard or singular; no substance, however changed by the hand of Art, but can, through chemical aid, be converted into the original elements or gasses, and thus be made to vanish into air like thin smoke.

Ere yet the grand truths of science had directed our judgment, it was supposed that the human family was coeval with the forma-tion of the earth. An investigation, however, of the crust of the earth, (which, though perhaps from ten to fifteen miles in thickness, bears only the relative position to this planet, which the rind bears to an orange or an apple) will prove it to be of great and uncalcula-ble antiquity. This belief is founded upon the various strata of rock, clay, and mineral formations which compose the crust of the earth, and which could have been accumulated only through a vast number of centuries.

The earth is believed to be filled with eternal fire, possibly generated and continued by some chemical action among its internal properties, or, as some scientific writers allege, from the original incandescence of the planet. However this may be, the existence of internal heat is universally conceded, and has been satisfactorily demonstrated by descents into the earth,—the temperature becoming warmer as the descent was continued. this source, then, must we mainly attribute the volcanic outbreaks, which have occurred within the recollection of mankind, and the effects of which are traced in the history of nations. But we have in the earth physical evidences of primeval eruptions, far surpassing, in stupendous grandeur, those of more recent date, and before which the famed Vesuvius, which has continued through eighteen centuries, to vomit out its burning lava,-fades into utter obscurity.

To volcanic eruptions must be added earthuakes, which may have served to extinguish the fires, from time to time, or caused them to

break out anew at other points. Long periods of volcanic action were without doubt succeeded by floods, and thus the loose fragments of the former were gathered together with sand, gravel, and pieces of rocks, and intermixed with the saline compounds of the sea, were concentrated into huge blocks or boulders, similar to the icebergs of the present day, and in this shape deposited irregularly over the land. Thus, from time to time, land must have been carried off and inundated by the sea; and again, the sea receded from the

Referring in part the cause of the superficial diversification of the earth to these great agencies-whose power none will questionshall proceed with the consideration of another point, which will introduce the reader to the carboniferous deposits of the earth. Before abandoning the theory of the earth's antiquity, however, we may add that it is amply sustain-When it ed by astronomical demonstration. is reflected that luminous bodies, situated millions of miles from our universe, must have required countless thousands of years ere their light could have penetrated to the earth, it will readily be conceded that the latter is of proportionate immensity in point of time, as the solar bodies in point of distance. If, therefore, we should undertake to determine the length of time in years, or even centuries, necessary to have brought about the changes which we behold in the earth's crust, we should be overwhelmed in the attempt.

To whatever cause Science may attribute the fact, all its votaries agree that the ancient earth possessed a universal climate; and they concede to it all and even more of the warmth than belongs to the tropical regions of the equator. Some writers, (and among them the celebrated Dr. Lyell, of England, whom we shall have occasion to quote before abandoning this subject,) think that the change of climate has been produced by the reversal of land into sea, and of sea into land; and imagine that, if a greater distribution of land now existed in the Southern hemisphere, and of water in the Northern, that the ancient climate would, in a great measure, be restored. But others, again, of equal celebrity with the former, refer the change to purely astronomical causes. Of these, the theory of Sir John Herschell appears to our view to offer the most claims to general acceptation. This is, that the amount of heat derived by the earth from the sun, decreases and multiplies with the eccentricities of the earth's orbit; and that this eccentricity is known to have gradually decreased, and still decreases;—hence he infers that a refrigeration of climate has been almost imperceptibly produced.

The belief in the previous existence of a universal climate is well sustained by the carboniferous deposites of the earth. These are believed to be of vegetable origin, as the prevalence of such a climate could not fail to

^{*} Note.—The sea has receded several thousand feet from the City of Pompeii, since the eruption of Vesu-

be highly favorable to the propagation of vegetable plants. There are, indeed, some persons, entitled to respect, who do not coincide in the belief that coal is a vegetable production. But the opinion, after a thorough canvass in the scientific world for many years, has at last settled down into this belief, and we are induced to adopt it as the basis of our position.

Concerning the nature and origin of coal, we may here briefly introduce the theory of Dr. Buckland. He believed that the most early stage to which we can carry back its origin, was among the swamps and forests of the primeval earth, where it flourished in the form of gigantic Calamites and stately Lepidodendra and Sigillariæ. From their native beds these plants were transported into some adjacent lake, or estuary, or sea. Here they floated in the waters, until they sank saturated to the bottom, and being buried in the detritus of adjacent lands, became transformed to a new estate among the members of the mineral kingdom. A long interment followed, during which a course of chemical changes, and new combinations of their vegetable elements, converted them to the mineral condition of coal. By the elevating force of subterranean agency, the beds of coal have been uplifted from beneath the waters, to a new position in the hills and mountains, where they are accessible to the industry of man. From this fourth stage, coal has been removed by the labors of the miner, assisted by the arts and sciences, that have co-operated to produce the steamengine and the safety-lamp. Returned once more to the light of day, and a second time committed to the waters, it has, by the aid of navigation, been conveyed to the scenes of its next, and most considerable change by fire; a change during which it becomes subservient to the most important wants and conveniences In this seventh stage of its long and eventful history, it seems, to the vulgar eye, to undergo annihilation; its elements are, indeed, released from the mineral combinations which they have maintained for ages, but their apparent destruction is only the com-mencement of new successions of changes, and of activity. Set free from their long imprisonment, they return to their native atmosphere, from which they were absorbed by the primeval vegetation of the earth. To-morrow they may contribute to the substance of timber in the trees of our existing forests, and, having for a while resumed its place in its living vegetable kingdom, may, ere long, be applied a second time to the use and benefit of man. And when decay or fire shall once more consign them to the earth, or to the atmosphere, the same elements will enter on some further department to their perpetual ministration in the economy of the material

Prof. Lyell, the eminent geologist of England, who visited the coal formations of the United States in 1941, made some interesting observations touching the origin and manner of deposite of the coal strata. We shall offer no excuse for laying before the reader, in this place, a brief synopsis of his views. That

which we call coal, says Mr. L. is merely the assemblage of strata which rests on the older sandstone, and in which is found that invaluable fuel; and although the quantity in which it is contained is very small in comparison with the bulk and volume of the other strata, there is still great interest and importance attached to it. We see that, in going from the highest to the lowest beds yet discovered, the coal occupies quite an ancient position—one indicating a formation low down in the sea, as we have above it the most modern formations. We have first the past-Pliocene, then the Tertiary formation; then the chalk, which is made up of calcerous matter formed, mostly, (at least in Europe) from de-composed shells and corals, and of those green marls which are found in New-Jersey, and are of such extensive use in Agriculture; then we have the Jura limestone, or Oolite, in which also are masses of coral, like the common coral reefs; below this are two other groups, and lastly, we come down to the car-bonilerous or coal-bearing stratum, which rests upon the sandstone beds, or the limestone containing corals, and which, like every other formation, contains species of animals, shells and plants of different species, from those immediately antecedent, or follow-Below this again we see limestone and shale, which enter most largely into the structure of the rocks of the state of New-York, and which abound in fossils.

Now, a great change must have been ex-perienced before the coal-period, when the fossils were deposited. He was indebted to Mr. Sapwitch, an eminent civil engineer, for copies of some models prepared by him of those sections, which are faithful and accurate representations of actual localities, as was fully verified by Dr. Buckland and himself in examinations which they made in the spring of 1840. The different strata of sandstone, shale and conglomerate, of which the carboniferous formation is composed, are here represented. The sections represent facts ascertained in cutting perpendicularly through the New Castle coal district. They are not hypothetical, but are founded upon exact measurements. In one of these sections, the dip of the beds is at an angle of 20°, while the slope of the valley is 40°. In the other the dip is 50°, and the slope of the valley in the same direction is 20.° In these two cases, therefore, the relation of the slope of the valley, and the dip of the beds is reversed. In both cases, also, the slope of the valley and dip of the beds are to the south, (to those who are not acquainted with these technical terms, it may be proper to say, that the deviation from a horizontal plane of the beds is called the dip, while the strike, as it is called, is the extension of the strata, in a direction at right angles to the dip.) In this case, as the dip is to the South, the strike must be from East to West. The flexures of the valleys depend on their inclination relatively to the dip; and these two sections cat through beds of coal, and shale, and sandstone—the shale being an indurated clay—are illustrationa of cases in which the two strata come up to the

the rank vegetable matter, may, indeed, through some chemical action, have produced a fermentation, which prepared it for subsequent, and not less important changes and positions. Finally the stratum would be gradually covered over, by the detritus of periodical overflows, or, (as is explained hereafter,) by the whole bed sinking down into the sea, and thus accumulating the saline matter which is interspersed between the layers of coal. This covering, however produced, effected the most important change in the vegetable matter. The overlaying accumulations of detritus, shutting in the original gases of the vegetation by pressure produced the fermentation of the whole mass, by means of which coal was soon produced, and the beds thus again prepared for further vegetation.

This proposition is well sustained by facts which are within the knowledge of almost evy one; and which are, indeed, self-evident: If a stack of hay, for example, were exposed in a moist condition, or were too closely packed, fermentation and ignition would be produced, and the hay would undoubtedly be consumed. But if the process be interrupted and combustion prevented, the hay will be found to have acquired a brown color, an oily surface, and a bituminous odor. The same phenomena are observable in flax; and all other vegetable substances, if similarly exposed, will produce similar results. Thus, were any vegetable matter in a moistened condition, placed under heavy pressure, so as to prevent its gaseous substances from escaping, bitumen or coal would be produced according to the various stages of its progress. Vegetable matter, (says Mr. Richardson,) has been traced through every stage of the saccharine, vinous, acctous, naphtha, petroleum, bitumen, lignite, jet, coal, amber, and even the diamond.

The experiments of Prof. Göppert, which have been followed in England, further demonstrates the vegetable origin of coal, and places it, in fact, beyond the possibility of a doubt. Having observed that the leaf, in ironstone nodules, might occasionally be separated in the form of carbonaceous film, the learned assent placed fern-leaves in clay, and then in the shade, exposed them to a red heat, and thus obtained striking resemblances to fossil plants. According to the degree of heat, the plant was found to become either brown, shining, black, or to be entirely lost, the impression only remaining; but in this latter case, the surrounding clay was stained black, thus indicating that the color of the coal-shales is derived from the carbon of the plants which they include.

The manner of deposit of the coal formation has generally been conceded to the agency of floods and drift, as alluded to in the synopsis herein presented of the theories of Dr. Buckland and Mr. Lyell. But this belief has of late encountered some serious opposition (as stated by Mr. L.) in the promulgation of a new theory in England, and which has now many and eminent followers. The objections applying to the idea that coal was deposited or formed by drift, are laid down by Prof. Richardson,

who does not himself hesitate to acknowledge his belief in the theory) of which the following synopsis may serve to present the outlines: The purity of the coal, and its freedom from extraneous substances, it is contended, are averse to drift; for had it been drifted in the manner conceived, it must infallibly have acquired some portion of foreign substances in its transit, such as pebbles, gravel, &c. But, since we find extensive seams of coal, utterly unmixed with any other matters, its freedom from these is considered to be incompatible with the idea of its having been carried to a distance by water. The generally uniform thickness of each seam presents another difficulty. Some coal seams are known to cover an area of several hundred square miles, sometimes thick and sometimes extremely thin, but each seam of generally uniform thickness and quality. Had the coal been wasted away, the probability is, that no such uniformity of thickness and dispensation would have occurred; but that, on the contrary, the mass, from the different specific gravity of its portions, as well as from other causes, would have been deposited in an extremely unequal manner, in heaps and hillocks; whereas, no such effects are observa-ble. The size of many of the coal-seams, considered with reference to the immense weight which they have undergone by the overlaying strata, is considered another objection of insurmountable magnitude. The enormous extent to which the bulk of substances may be reduced by pressure, is strikingly exhibited by an incident which occurred in an English mine, and which is related by Mr. Burr: A mass of rubbish, which was left in a worn-out vein of iron-stone, during a period of only two years, was in that short interval reduced from seven to no more than two feet in thickness, owing to the pressure of the overlaying weight
—and when found, it had formed into so hard a substance, as to present one mass of rock, which could only be penetrated by the operation of blasting. Now, when we consider the far greater compressibility of vegetable matter than mineral detritus, and reflect that the beds of coal have been subjected to the pressure of masses, not of a few yards, but in many instances, of many thousand feet in thickness, and this during a period not of a couple of years, but of countless ages of the past,—it will appear self-evident that for the formation of such deposites, supplies on the most enormous scale would be required, and that it would be utterly impossible to transport them by the action of water, so as to produce the results we witness. Again, the high state of preservation in which many of those objects occur, the perfect condition of the leaves and parts of fructification of many of the ferns, the sharp angles of numerous stems of plants which are presumed to have been of soft and succulent nature, and with the surfaces of others marked with lines, streaks, and flutings so delicate, that the mere drifting of a day would inevitably have destroyed them—these, with facts of a like nature, and leading to similar conclusions, lead to the belief that

these objects have never been accomplished by drift, but that they are buried on the spots where they lived and flourished.

Again, it is contended, that if vegetable matter were swept away by a flood, such an agency, by allowing the gaseous particles to escape, would never be adequate to produce the desired results, and that coal never could be fermed by such a process. Coal itself (or some kinds of coal at least) if buried in the water for any considerable length of time, would loose largely its igneous properties. and finally crumble away as its gases escaped.

But, finally, the multiplied instances of trees found erect on the spot where they unquestionably grew, is considered sufficient to overthrow the idea of transport altogether, and to establish the fact of the Coal having chiefly grown on the spot where it is now found.

The alternation of beds of coal with marine deposits is explained by Mr. Richardson by the supposition that extensive subsidences of the estuaries, which were the site of the lacustrine and terrestrial vegetation just described, may have reduced these estuaries beneath the level of the sea, where the submerged soil, with its vegetation, was covered with accumulations of encrinital limestone and other marine sediments; and that, in course of time, either by drifts of sand or clay from the land, or by the elevation of the bed of the sea, the estuaries were again filled and become the area of the vegetable growth above named, while the repetition of such changes would account for the alternations of marine and vegetable deposits which occur in our beds of coal.

Having thus dwelt somewhat minutely upon the coal formation, and the geological phenomena to which it is allied, we will, in conclusion, take a retrospect view of the strate of the earth, and the means which have, from time to time, modified and changed its configuration. We perceive, by excavations made for railroads and canals by the side of mountains, that there are various layers of rock. clay, sand, coal, &c., reposing one above the other.

As stated in the commencement of this chapter, the origin of our earth must have been a mass kept in a strata of fusion by heat, and that its surface become hard by having gradually cooled. The most ancient part of the earth is composed of granite, which appears in an unstratified muss, and bears every indication of an igneous prigin. There are some kinds of granite, however, of comparatively recent origin, which so clearly resemble the ancient rock as to be sometimes difficult to distinguish one from the other. Gneiss is a reck very analogous to granite. It is stratified, however, and seems to have been formed under water. It attenuates with micha-schist, which ordinarily accompanies greate and gness. Next we have argillaceous echist, which was also formed under water, and which

is of a soft, slaty nature, and easily split.
These reals, whose origin is convel with the cteation of the earth, are frequently found at the top of mountains, as well as at the lowest depths of the earth, which goes to prove that the earth has, at various periods, been subjected to the severest upheavals and internal convulsions. Among these rocks, no fossile have ever been found, and it is thus certain that animal and vegetable life did not exist at this early period of the earth's history.

It is in the next, or second geological epoch, called the Transition formation, that the first traces of the existence of vegetable and m rine life, on the surface of the globe, are found. Previous to this period, and perhaps as a pre-lude to the introduction of life, the former rocks had been disturbed, as above mention, ed,-for we do not find the strate of the Tranaition formation in parallel layers over the primitive beds; but on the contrary, they are deposited in the greatest apparent confusion.
Geologists have divided this fermation into

three divisions, which are called respectively the Cambrian, the Silurian, and the Devonian systems of rocks. The former are the oldest sedimentary racks known, and are composed of schistose grauwackes, mica-schists and gneiss. The Cambrian rocks contain organis remains of various brachiopeds, polyparis, coral animals, &c.

The Silurian System, which is next above the Cambrian, comprises an upper and lower strata, and is very nearly similar to the Cambrian rocks. The strata are exclusively of marine origin, and whole beds are composed of shells, corals, &c., and those peculiar crustscoons termed Trhobites, and which, being rarely found in other situations, are character istic only of the Silurian and Devonian strata.

After the revolutions which seem to have terminated the primitive epoch, the certification must have remained for a long time in a stat of repose, as we find in the third geological period, denominated the Secondary form tion, the stratum called the old red can -consisting of a mass of rocks and pebbl comented together, having been transport and accumulated through the action of water and upon which rest the carboniferous dopo-sits. This formation is composed principally of marine fossils, the varieties of which are very numerous. The mountain limestone, and metalliferous limestone, in which are found ores of lead, copper, zino, &c., beside numerous descriptions of organic remains, be long to this formation. Next comes the coal formation, and as previously stated, this is ex-clusively composed of vegetable matter, formed as aforesaid, end in which marine or other fourils are zarely found.

A violent convulsion seems to have terminated the coal period, which was succeeded by what is called the Saliferous formating being the fourth geological epoch. In this are found the rad conglomerate, new rad sand-stone, &c. very often deposited in layers frage one to five hundred feet deep. Few ergan this time that the animals belonging to

class of reptiles were created.

In this speed are embraced several a tides, (mostly of local names) which need essential to our present purpose, it is sary to enumerate.

The fifth geological epoch, embraced in the Secondary formation, comprizes what are called the Lissis, the Jurasic, and the Colitic systems. Previous to this epoch, the earth was inhabited only by certain plants, and a few inferior animals and reptiles; but at the commencement of this formation, a new fauna was created—composed of animals and reptiles of strange form and gigantic size. Rocks of the Jarassic system, as also those of the Lissis, are not met with in this country, and we therefore avoid a description of them, as well as the fossils which they contain.

In the sixth geological epoch, also in the Secondary formation, we have the lower or inferior cretaceous system, abounding, as the latter mentioned series, in marine and animal fossils. This formation contains limestone, with here and there deposite of gypsum, clays, sands, iron ores, &c. In England, under the name of Westden formation, are deposited, in alternate hyers, limestone, sand, and clay, all of which are frequently of great thickness. Above the Westden formation is a group of deposites of green sand, in which are distributed particles of silicate of iron, which are also found in New Jersey. Higher up are again found limestone, sandstones and ohalk maris, the stratification of which is only indicated by layers of flint in the latter. Beds of the cretaceous group are found in New-Jersey and other parts of the United States, but they rest on the oldest secondary rocks, without the intervention of the Oolite.

The next formation, (and the seventh geological epoch) is called the *Tertiary* formation. Between the commencement of this epoch, and the termination of the chalk strata, all traces of ancient or primitive remains are lest; the feesila which are found in the subsequent formations being but types of existing organic

The Tertiary formation is divided by geologists into the Eccene, Miocene, and Phocene; or the older, middle and newer Tertiary greeps. The first named strata is developed in the states of Virginis, North and South Carelina, Georgia, Alabama, &c. It consists principally of greenish seads, nearly identical with the eretaceous series, and of the same mineral qualities. In Paris it embraces layers of limestones, marls, and siliceous matter;—while in London it forms stiff and again plastic elays, which are useful for manufacturing purposes. Above these layers occur various kinds of clays, limestones, marls, gypsums, &c., the latter of which being extensively used in France for the manufacture of Plaster of Paris, &c. Above the gypsum we find a more modern group, composed of marls, sands and finits—the first a marine, and the other a fresh wester deposit.

The Mioceae beds prevail on the Continent of Europe, and in America along the shores of the Chesapeake Bay, and in some parts of Virginia. They abound in fossils, and consist marialy of shells, sunds, manuscones, and conglemerate of gravel, &c., which are hard enough for building stones. In some portions of the globe, the Mioceae series present com-

bustible materials—and remains of dicotyledonous plants abound in them in Switzerland, Germany, Italy, &c.

The Pliocene beds of the United States are

The Plicoses beds of the United States are of comparatively recent origin. They are found in New-York, Kentucky, and along the banks of the Potomac in Maryland. In Europe, brown coal, or lignites, is found in layers, which can be advantageously worked. The beds extend all over the old world, and their mineral properties vary in different points; and at some places they exhibit evidences of far greater age than at other points. They consist mainly of maris, sands, and remains of marine, fresh water, and land animals.

In this formation are also embraced superficial deposits of drift, consisting of gravel, boulders, and, clay, &c. There are two kinds of drift, one called the ancient or diluvium and the other the modern or alluvium. In the former, which covers over the Tertiary formation, are found fossils which date not very far back from the present period,—as the diluvial period, in a manner, unites the Tertiary with the recent past. In these deposits are found bones of extinct and recent genera of animals, and among them those of the Magatheriam, the skeletons of which measure eighteen feet in length, and about nine feet high. This animal is much larger than any subsequent animal, and the thigh-bone is believed to be three times as great as any known elephant. In this period are also found remains of elephants, horses, rhinoceroses, &c. It is to this period also that geologists refer the immense masses of debris which contain gold, platina, and the diamond, in Brazil, Africa, India, &c., as well as the veins of tin in Eng. land and Mexico. The formation known as the Boulder or erratic block formation, also belongs to the Diluvial period. All over the world these boulders have been deposited. In some places they are of huge proportions and weight, while ordinarily they consist of gravel stones, of more or less greatness. They are composed of various mineral material, and not unfrequently are pure and hard granite.

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In the United States many of the valleys are filled up to a great depth with the modern or alluvial deposites. They consist mostly of a heteregeneous mass of earthy matter, brought down from the higher lands by rains and freshets. Bones of the buffalo, the elephant, and other animals, are found in these beds; and skeletons of the celebrated Mastados have been exhumed at different localities.

It is in the modern formation, comprising the eighth geological epoch, that the first traces of the human family have been discovered; and although it is possible that its origin may date farther back than can be supposed from the evidences furnished by the exposed land, yet geologists generally unite in the belief that no earlier records appear in that portion of the earth covered by the sea.

Immediately previous to the modern epoch, the earth seems to have enjoyed a repuse of long-duration. With the exception of a few upheavals occurring during the latter postion

of the dinvial period, there has been no catastrophe of any moment; and all the changes which have taken place "since the great flood" have been brought about by various causes—by those gradual and almost imperceptible agencies which, continuing from centuary to centuary, and from thousandth year to thousandth year, will, sooner or later, have brought the world to another grand epoch.

Having thus desultorily traced the order of strata, we may add that it is always regular. We can never find coal, for example, below the more axcient formations; nor an ancient stratum overlaying a modern one. Thus we perceive the value, in an economical view, of scientific knowledge. Thousands of dollars have been, and are still expended by the uninformed, in explorations after mineral treasure, which, did they but enjoy a limited knowledge of those paramount laws which pervade throughout all the Creator's works, could be saved; besides the labor, anxiety and bitter disappointments which invariably attend ill-directed enterprizes.

—In casting our eye over the surface of the earth, we everywhere perceive evidences of a universal and continual change. The frosts of autumn; the snows of winter; the rains of spring; the electricity of the summer—each contribute to this purpose. The substance of mountains is daily diminishing; and rocks,

-- those silent historians of the past, -- gradually crumble into atoms, and unperceived are borne off to a new resting place in the sea-

To recapitulate: we find the order of strata of the earth's crust, to be as follows:

Modern-formation.

Pliocene, TERTIARY Miocene. Eocene. Chalk with flints, Chalk without fints, Cretaceous Chalk Mari, System. Green Sands, Wealden System Oolitio Bustem System SECONDARY T.isseic Upper new red Sandstone, or Triassic System Lower new red Sandstone, or Peruvian Bystem. System Carboniferous Old red Sandstone. Devonian System Silprian System TRANSITION (Cambrian System METAMORPHIC Argillaceous Schist, (Gneiss: PLUTORIC ROCKS-GRANITE.

ANTHRACITE FORMATION OF PENNSYLVANIA.

LOCALITY.—The Anthracite Formation of Pennsylvania lies in the Counties of Schuylkill, Dauphin, Lebanon, Carbon, Northumberland, Columbis, and Luzerne, in the middle part of the Eastern portion of the State. It is watered by the Susquehanna, Schuylkill, and Lehigh rivers, and their numerous tributary branches.

EXTEST.—The Anthracite Formation of Pennsylvania may be divided into three grand divisions, or large Coal Regions; the first, or most Southern division, being known as the South Anthracite Region; the second division called the Middle Authracite Region, and the third grand division is known as the North Anthracite Region, or Wyoming Coal-field.

Anthracite Region, or Wyoming Coal-field.

The three great Anthracite Regions may be again divided into Coal districts, as follows, viz.: The Coal districts contained in the South Anthracite Region, commencing at its castern end, and continuing thence westward, are the Lehigh, Tamaqua, Tuscarora, Schuylkill Valley, Pottsville, Mineraville, Swatzes, and the Lykens' Valley and Dauphin,—the

Lykens' Valley being the North fork, and the Dauphin the South fork of the western extension of the South Anthracite Region."

The Middle Anthracite Region, commencing at the western end, and continuing themose eastward, has the Shamokin, Mahanoy, Girardsville, and Quaquake Coad districts; together with the small detached Coal basina contiguous to the Lehigh river, as the Beaver. Meadow, Hazleton, Black Creek, Sandy Creek, and others of still smaller area.

The North Anthracite Region, commencing west and continuing thence north-eastward, has the Shickshinny, Wilkesbarre, Newport, Pittston, Lackawanna, and Carbondale Coal districts.

The South Anthracite Region extends in length from its eastern p int-like end, near the Lehigh, to its western terminus near the Susquehanna—a distance of about seventy-five miles. The greatest breadth, including

^{*} See Man accommanying this work.

the Coal formation on Broad mountain, is about six miles. This measurement is across the widest and central portion of the Region, and will only hold good for a short distance. The average width of Coal ground of the South Anthracite Region is not more than two miles.

The Middle Anthracite Region, with the detached Coal basins at its eastern part, on the Lehigh, extends in length to its point-like terminus at its western end, which point is about seven miles East from the river Susquehanna—a distance of about fifty miles. The greatest breadth is nearly four miles, Thus, the Middle will average more Coal ground than the South Anthracite Region.

The North Anthracite Region extends from its morth-eastern end, on the head waters of Lackawana Creek, to its western point at Shickahinny, on the North branch of the Susquehanna, a distance of upwards of sixty miles. This will not average so great a width of coal ground as either of the other two great

ground as either of the other two great Regions.

Within the limits of the three great Anthracite Regions, are ridges and spaces composed of conglomerate, red shale, and sand stone strata, which lie between, and separate from each other the several coal basins of each of the three great divisions. In this stratification no Coal exists. The value of the land which contains the coal is calculated by taking into consideration the number, thickness, character, and quality of the veins of mineral in each particular place, and from their adaptation for mining to advantage, and their accessibility to market.

GEOLOGICAL CHARACTER OF THE ANTHRACTER FORMATION.—We are indebted to Wm. F. Roberts, Esq. the well-known practical Geologist and Mining-Engineer, for the following concise description of the geological structure of the Anthracite Formations of Pennsylvania. The statement was prepared expressly for this work, and may be relied upon as strictly authentic:

The Anthracite, Formation of Pennsylvania, as regards its Geological character, especially in the South Region, is very much distorted, and the Coal veins are much disturbed, and irregular in their courses. In working the mines faults, both of a hard and soft nature, or, in other words, rock and slate, (or what is not inappropriately named dirt faults, seme of which are of great magnitude) are frequently met with, which not only prove a good to be course, by diminishing the quantity of Coal: but they are a serious inconvenience to the prosecution of the mine, and a great drawback upon the profits of the Operators and lessees of the Colliery—sometimes occasioning the abandonment of the work altegrather.

In the Middle Anthracite Region,—taking as an index the mines in operation, the explorations already made, and the general kind appearance of the rocks, and great regularity of the surface,—it is presumed that "faults" will not be found to exist as in the South

Region. Indeed, the whole Geological character of the Middle Anthracite Region,—the general order and range of the stratification being so uniform and undisturbed,—goes far to prove that no fault of any magnitude will be found within its limits. The mountains are very high, the Coal veins, especially those of the bottom part of the series, are generally very thick, and crop out high up the mountain sides; therefore an inexhaustible amount of Coal, of the very best quality, may be truly and safely calculated upon as existing in this Coal Region.

In the North Region the general character of the strata is undulating, and comparatively flat to what it is found in the South or Middle Regions. The Coal veins, which are those of the bottom part of the formation, are generalbut in quantity there is not that average a-mount per acre of coal as is found in the other great Regions. This may be accounted for from the slightly undulating arrangement of the strate, and from the waters of the North Branch of the Susquehanna Biver, which flow through the central part of the Coal Valley, having changed its course from time to time, and swept or washed away much of the Coal, -leaving in places sand and gravel banks that cover considerable area of surface. The great Wyoming flats indicate the change which has taken place in the course of the River.

The basis of the Anthracite formation of Pennsylvania is a conglomerate rock, consisting of white quartz pebbles of various sizes, imbedded in a strong siliceous cement; underneath the conglomerate is a thick mass of red shale and sandstone strata, which completely encircles, in a continuous mountain chain, the three great Anthracite Regions of the attate.

The conglomerate, where the measures are perpendicular, forms high massive walls of rock on the summit of the mountains which bound the Coal Begions, and divide the Coal basins; and it is of such a durable, undecomposing nature, that in some places where the strata is on edge, it rises a natural wall twenty to thirty feet in height above the level of the crest of the mountain, and not more than from two to three feet in thickness from the base up. In other places it lies en masse in immense blocks, covered with a variety of moss—giving it an imposing, extraordinary rough, and romantic appearance.

As the Coal measures—from their highly inclined angle of dip, which are in some places in the mountain that forms the South boundary of the South Anthracite Coal Region, overtilted—pass to a lesser angle of inclination, which gradually decreases in proceeding northward over the three great Anthracite Regions—the conglomerate becomes more thin and less abrupt in its character; and, indeed, its situation is at times only marked by the loose detached white pebble stones scattered over the surface of the ground, the coment which binds the parts together being in some situations of a more decomposing quality than it is at edser places.

The red shale, by exposure to the air, and by the action of water, decomposes very freely, and is the great reason why the general character of the mountains which form the boundaries of the Coal Regions are so steep as they are found to be where streams of any size run along their base;—while the conglomerate on their summits remains undisturbed, a rock of ages until the red shale, on which it reposes, crumbles away, and thus these immease rocks are hurled from their elevated natural position into the vallies below,—and thus are immense boulders of the conglomerate carried away from their native beds to great distances.

The South Anthracite Region contains several elongated synclinal and anticlinal axis of stratification. The general order of the Coal veins range parallel with the mountain chains that bound the sides of the troughs or basins, which is in an East and West direction—the general dip of the veins being North and

South.

The first or South axis or trough of Coal strate, of the South Authracite Region, is bounded by Sharp mountain on the South, and by a range of hile, parallel with Sharp mountain, on the North. This axis is in shape like a cance, its greatest width being about the town of Pottsville, which, in that place, is something over half a mile. The eastern terminus of this axis is a short distance south-east of Middleport. The western terminus is near the Susquehanna. Its continuation westward forms the conthern fork of Coal strate in Dauphin district. The extreme length of this axis or trough of Coal strate, the bottom veins end in a point, and are considerably elevated above the place of the same veins in the central part.

In the commencement of mining operations in Schuylkill County, and indeed down to the present time, it has been considered by many persons who profess a knowledge of these matters, that the range of Coal veins in Sharp mountain, which are what is termed exertited from the perpendicular, are not identical with those veins worked on the opposite side of this narrow trough or synclinal axis—i. e. they are not the uprising to the South of the Coal veins worked in the range of hills on the North side of the trough, and which dip to the South, and the sections hitherto made and published tends to show that the veins on the North side the axis are not connected with those of Sharp mountain. It is true that the Coal veins of both sides of this synchinal axis dip in the same direction to the South those of Sharp mountain on the South side the axis at an angle of about 80° to 85°, and those on the hills on the North side the axis, at an angle of 45° to 50°, and 60°,—yet there is ample evidence to prove the fact that the South and North ranges con--yet there is ample evidence to prove nect with each other and will be found to basin beneath the surface in the valley.

In an excavation at Potteville, made in the centre of the two ranges of Coal strata of the first or fouth synchial axis, is developed the curvature of the axis,—the stratification of

rock overlaying the upper vein of Coal is regularly continued and unbroken from one side of the range to the other, and at the extreme ends of this elongated trough, from the bottom veins of Coal being highly elevated, and their dip thereby considerably decreased, they show the axis to be perfect throughout, and the South and North ranges identical and connected with each other. Thus we have at the extreme ends of the first synclinal axis, the bottom, and in the centre of it, the top of the stratification of which it is composed, in a perfect and regular basin-like and synclinal order—clearly connecting the Coal veins which are found in Sharp mountain, the South side of the axis, with those in the small range of hills, the North side of the axis.

In his description of the Sharp mountain,

In his description of the Sharp mountain range of Coal strata, our State Geologist and myself " do not agree, and it may not be out of place here to give his remarks thereon in full, with the reason why my opinion and his are at variance with each other, as to this par-

ticular part of the Coal formation.

Professor H. D. Rogers, in his second annual Report on the Geological exploration of the State of Pennsylvania, p. 80, says: "By far the most conspicuous North and South disruption of the Coal measures and their southern conglomerate barrier, is displayed in an enormous dislocation of the entire chain of the Sharp mountain, about nine miles east of Pottsville, by which the whole mass of the mountain on the eastern side of the break, has been moved sorthward, through at least one-fourth of a mile, throwing, of course, all the Coal seams far out of their regular position." From a careful examination of the place referred to by Professor Rogers, as above, I find that no evidence is shown that the Coal measures of Sharp mountain have been moved northward, or in any way displaced; but, on the contrary, a aniform regularity is maintained in this part of the Coal Region. The Sharp mountain, it is true, is not continued eastward further than the place referred to, for the reason that the Coal measures of the first synchinal axis of the South Anthracite Region baving terminated there. The Coal veins of this axis, as I before observed, are gradually elevated as they approach this point, one wein basins out after another, until the last or bottom vein of the axis runs out on the table land at the end of the mountain, bounded by the conglomerate. The red shale at the termination of the axis, from its soft decomposing nature, form an ab-rupt declivity occasioned by the streams which flow down its sides into the valley belowthis is the "conspicuous North and South dis-ruption" of Mr. Rogers. Further North than the termination of the first axis, another mountain (not Sharp mountain,) bounds the South side of the second axis of Coal strate of the South Anthracite Region.

The second synclinal axis lies between the range of hills before named, and a range further North, which, in the vicinity of Pottsville

^{*} Wm. F. Roberts, Esq. Geologist and Mining Engineer, Danville, Pa.

is called Peach mountain. The Coal veins of the Peach mountain range are very much contorted in their disposition, having several undulations or axis of a minor synclinal and anticlinal character. In the more elevated land along the range of Peach mountain, the curvatures of the Coal veins are more duplicated than they are in the low parts of this mountain range. A better development of this peculiar Coal formation may be seen in the lands north-east of Middleport, where the curvatures of the strata are more numerous, and exposed by actual workings, than may be found in any other position along the entire

The uprising of the Coal veins at this place forms several synclinal and anticlinal axisthe lower veins curve over before they reach the surface, and the upper ones lie over them in an uniform way. In some places, where denudation has taken place, the continuity of the saddle, or anticlinal curve of the upper veins, is washed off, and the same veins form several north and south dips, which, previous to the nature of the formation having been clearly understood, were taken for so many different and distinct veins of Coal. misconstruction of the true Geological character of the veins, and the reason why so many outcrops are exposed, being not considered: led to a great many errors in the esti-mation of the real value of the Coal land in the Peach mountain range, as regarded the quantity of mineral contained therein. In many other places, too, in the Anthracite formation, the same causes have, and do even at the present time lead to similar results, and is the reason why erroneous calculations are not unfrequently made.

The extreme length of the axis of Peach mountain Coal strata is about thirty-five miles. The eastern terminus of the synclinal axis is at the Old Summit Coal Mines on the Lebigh estate. This, the second axis, extends further east than the first axis a distance of about eleven miles. The western extreme point of the second synclinal axis is about twenty-five miles East from the western end of the South fork of Coal strata in Dauphin district, and about fourteen miles East from the western end of the North fork of Coal strata in Lykens' Valley district. The point of termination of the second axis is where the two before named forks begin to diverge in their westward prolongation from their course eastward. terminus is seven miles north-west from Pinerove. In the continuation of the axis of Peach mountain Coal strata, the undulations that are found in its central part, do not continue through its entire length, at its eastern and western parts—as the bottom Coal veins of the axis become more elevated, the curvatures of the strata are diminished.

The third cynclinal axis is between Peach mountain and Mine Hill, and extends from the point-like terminus of the South Anthracite Region, near the Lehigh river, to a similar terminus, the end of the North fork in the Lykens' Valley district,—a distance of about fifteen miles. In this axis undulations and

curvatures of the Coal strata are found, but not of that frequent occurrence as in the Peach mountain range. These undulations may be seen at Rhume Run, in the Lehigh district; on Silver Creek, in Schuylkill Valley district, (North of Pinegrove,) and in the Lykens' Valley district.

The fourth synclinal axis of Coal strata is known as the Broad Mountain Coal basin, which lies between Mine Hill and Broad Mountain; its eastern end is between the head waters of Wolf Creek and Silver Creek; its western end is West of "Woolaston's" or Raulin's Tavern. The length of this axis is about

eleven miles.

The fifth synclinal axis of Coal strats is on the summit of Broad Mountain; its eastern end is East of New Boston Colliery; its west-ern end, West of Raulin's Run. The length of this axis is about fourteen miles. The axis is narrow, and the Coal is in places washed offtherefore it is not so valuable in point of quantity of Coal as it would be were the veins continuous through it.

-The foregoing axis of Coal strata consti-tute the South Anthracite Region—the first grand division of the Anthracite formation of Pennsylvania.

The Middle Anthracite Region contains as well as the elongated synclinal and anticlinal axis of Coal strata, several small and detached

Coal basins.

Between Mahanoy Mountain, the South boundary of the Middle Anthracite Region and the mountain ranging parallel thereto, and next North, known as Locust Mountain, are three-synchinal and two anticlinal axis of Coalstrata. The valley containing these axis is about twenty-six miles in length. The eastern termination of the axis is about eleven miles each from Girardsville, near the head waters of. the Mahanoy and source of the tributaries of the Little Schuylkill. The western termination is South of Shamokin. Both terminations. of this axis break off in a similar manner to the eastern termination of the first axis, in the South Authracite Region. Locast mountain is the North boundary of the Mahaney, and the South boundary of Shamokin Coal valley. The North boundary of Shamokin Coal valley is Big mountain. In the Shamokin Coal valley, taking its central part as a section, there are four synclinal and three anti-plant are of Coal starts, besides a well of the clinal axis of Coal strata, besides a roll of the outcrops of the lower veins of Coal shown on the North slope of Locust Mountain. first synclinal axis of the Shamokia Coal Valley is between Locust Mountain and Meunt Carmel Ridge; the second between Mount Carmel Ridge and Mine Ridge; the third be-tween Mine Ridge and Coal Rua Ridge; the fourth between Coal Rua Ridge and Big Mountain.

The anticlinal axis are Mount Carmel, Mine-

Ridge and Coal Run Ridge.

The most complete and beautiful development of the Coal strata of the Anthracite formation of Pennsylvania, is the anticlinal axis of Mount Carmel Ridge, developed by the North Branch of Shemokin Creek. The creek passes through the axis at a right sangle to the run of the coal strata, about five hundred yards west from the centre tunnpike at Mount Carmel,*—the arch of sandstone rock is cut down perpendicular, forming a beautiful curve, and giving an admirable illustration of the regularity and perfection of this part of the Coal field. The anticlinal axis of Mine Ridge is likewise cut by the same stream, and affords another example of the perfection of the Coal strata of the Shamokin Coal Valley. Mine Ridge, from the Centre Turnpike, gradually rises into a hill of great elevation eastward, where coal veins of great thickness and extraordinary pure quality are opened—a strong evidence that the ridge or axis of Coal strata, when thoroughly developed, will prove to contain mineral in quantity and quality inferior to no other place in the Anthracite formation of Pennsylvania

Big Mountains contains the bottom series of Coal veins which crop out along its summit. These veins are the same as those developed in Locust Mountain, the thickest veins of the

Anthracite formation.

The Shamokin Coal Valley extends in length from its eastern terminus, on the head waters of Little Schuylkill and Quaquake Creeks, to its western terminus within about seven miles from the Susquehanna—a distance of about forty miles.

The eastern terminus of the Shamokin Coal Valley has two forks of Coal strata, similar to the forks of the western terminus of the South Anthracite Region, but much smaller in

point of length and width.

North of these forks are the detached Coal basins of Beaver Meadow, Dreck Creek, Hazleton, Black Creek, Little Black Creek, Sandy Creek, and Hell Kitchen, extending one after the other northward to the Nescopeck mountain. The Nescopeck summit is conglomerate, the base of the Coal formation; and from it to the Wyoming Coal field, traces of the Coal formation are found—a sufficient evidence that the three great divisions of the Anthracite formation of Pennsylvania were, in formation of Coal atrata.

Whatever changes have taken places since the deposition of the Coal strata, I am of opinion have been gradual. I have examined in different places where disruptions and dislocations have been represented to have taken place, and as far as I can see, nothing in these places of an extraordinary nature exists—at least so far as regards a momentary or violent force having been exerted, to have materially, at any one time, altered the general order and

arrangement of the strata.

The South Anthracite Region contains white, red, and grey ash Coal veins. The white ash are found in the Lehigh part of the Region, in the basins of Broad mountain, and in the Mine Hill. The principal grey ash are in the Peach mountain range, and the principal red ash Coal are the South dipping veins of the first synclinal axis. The South fork in Dauphin District has, in its eastern end, a semi-bi-

tuminous Coal, which gradually changes, going westward, into a pure bituminous. A similar graduated change from an Anthracite to a Bituminous Coal is found in the Coal formation of Wales, in Great Britain, and according to Professor Muchison, in several Coal fields in Russia the Coal veins which are Bituminous at one part of the basin, become Anthracite at the other. Lykens' Valley district yields Coal of a semi-Bituminous or free burning quality. Argillaceous Iron Ore, both nodular and in seams, is found varying with the Coal veins in places through the Coal Region, and Black Band or Carboniferous Iron-stone is found in the Lykens' Valley district.

In the Middle Anthracite Region is found white, gray and red sah Coal veins. In Big mountain a superior vein of red ash Coal, seven feet in thickness, which burns very freely and leaves no cliuker, is opened with white ash coal veins above and below it. Red ash Coal veins are found in other localities in this Coal Region. Argillaceous Iron ore in the nodular form, and in regular strata, appears to be in abundance through this Coal Region; and Bog Ore exists in large beds in various places. Carboniferous Iron-stone is likewise found in this Region, and may ultimately become an article of great value for smelting purposes.

THE BITUMINOUS FORMATION

OF PENNSYLVANIA.*

Nature, in the disposition of her bountles, seems to have bestowed upon Pennsylvania more than a due proportion of the treasures of the mineral kingdom. Great and valuable as are her Anthracite deposites, and rich and abundant as are her mines of iron ore and other minerals, the Bituminous Coal Region is still more extensive and inexhaustible.

The great secondary deposit, extending, as it is generally believed, from the Hudson to the Mississippi, and to the Rocky Meuntains; is in Pennsylvania limited by the Alleghany mountain, which appears to form the barrier or dividing line between the Anthracite and Bituminous Coal beds. The union or junction of these formations is plainly and distinctly marked in the ends of the mountain where the West Branch of the Susquehanna breaks through it, above Bald Eagle, the latter resting against the former, and forming the basin in which the Bituminous Coal, in irregular and successive strats, is deposited. This Coal field is, therefore, confined to the West side of the Allegany, and is supposed to extend to the centre of the mountain. In the Southeast corner of Somerset county, and in the western part of Bradford and Huntingdon counties, it is found to extend to the Southeast of what is locally called the Allegany, and occurs in great abundance on Will's creek, Jenning's creek, Gladwin's creek, &c. emptying into the Potomac. The chain of moun-

[&]quot; A new town just erected, not laid down in the map.

^{*}Abridged from Packer's Report to the Legislature of Pennsylvania—1834.

tains called the Allegany, above Bedford, is very wide, and large mountains diverge from it; and although the mountain running through Somerset, and dividing the waters of Youghiogeny and Conemangh from those of the Potomac, may be the largest: it seems most probable that Well's, or Evett's, or possibly Sideling mountain, there forms the boundary of that deposit, and, upon examination, will be found to exhibit a continuation of the same characteristic feature between the secondary and transition formations.

The Bituminous Coal fields vary from one foot to twelve feet in thickness, but rarely exceed six feet. They lie in nearly horizontal strata, with about sufficient dip to free the mines from water. Some hills contain three and four beds, with alternate layers of earth and slate, and rest between a smooth slate roof and floor. Faults are seldem met with; and in this respect they materially differ from the Anthracite. Mr. Packer thinks this fact goes far to sustain the opinion that all this vast extent of secondary rocks was once the bottom of a great lake or sea, and that it suffered little, if any interruption from the gradual discharge of its waters through its distant and widely extended boundary. It has evidently been drained by the Mississippi, the St. Lawrence, the Susquehanna, and the Hudson; and it is a curious and interesting fact, that near the northern termination of this Coal field in Potter county, the head waters of the Allegany, the Susquehanna and the Genesee rivers, flowing into the galf of Mexico, the Chesapeake and the St. Lawrence take their rise in an area or space of about five miles.

With the exception of the Susquehanna and its tributaries, and Will's creek emptying into the Petomac, all the streams rising in the Coal field, West of the mountain, flow into the lakes, on into the Ohio river; and consequently the ground falls off, or recedes in the same direction, and becomes too low, as it is generally supposed, to contain the Coal measures. Its northern termination or boundary may be traced from the head waters of Towanda creek, in Bradford county; thence across the high-lands or dividing waters of Tioga, Potter, Miksan, Warren, Venango, &c. to the Ohio State line. The Tioga river and its tributaries penetrate the Coal field in the vicinity of Blessburg and Wellsborough, in

Tioga county. An interesting minerological report upon this Region has been made by R. C. Taylor, Esq. (author of the valuable Statistics of Coal—just published;) for the Blossburg road company, in which is satisfactorily shown that the Coal runs out as the streams decline in the North. There would need,—says Mr. T.—a total height of mountain of five thousand one hundred and twenty-five feet at the State line, between New-York and Pennsylvania, to contain the Coal measures; whereas, the hills there are probably between six and seven hundred feet altitude. This calculation was entered into with a view of showing the futility of the expectation, not uncommonly expressed some time ago, of tracing these Coal beds to a northerly direction beyond the limits at which they are at present discoverable.

This field, being bounded on the South by the Allegany mountain, extending into the State of Virginia, and westward, Coal may be said to be present, to a greater or less extent in all the western Counties, with the exception of the County of Erie, in which it has not yet been discovered. The Counties of Bradford, Lycoming, Tioga, Potter, M'Kean, Warren, Crawford, Bedford, Huntingdon, and Centre, lie partly in and partly out of the Coal field. The Counties of Allegany, Armstrong, Beaver, Butler, Cambria, Clearfield, Fayette, Greene, Indiana, Jefferson, Mercer, Somerset, Venango, Washington, and Westmoreland are wholly within its range, and embrace together an area of about twenty-one thousand aquare miles, or 3,440,000 acres.

The West branch of the Susquehanna, taking its rise in Cambria and Jefferson Counties, passes through the heart of the rich Coal deposites of Clearfield County, and breaks through the Allegany meuntain above the mouth of Bald Eagle, thus affording an outlet to the eastern markets for the Coal of that Region. It is navigable for arks from the Cherry Tree, or mouth of Chest creek, in Clearfield County, and one hundred and twenty-five miles above the present termination of the Pennsylvania canal, at Dunnstown, Pine creek, and Lycoming creek, have also their source in the Coal field, and afford outlets for the Coal to the Susquehanna, and to these three points we must look, mainly, for our eastern supplies of Bituminous Coal.

HISTORY

OF THE

INTRODUCTION OF MINERAL COAL

IN PENNSYLVANIA, &c. &c.

In entering upon a brief history, as we now propose to do, of the introduction of mineral Coal to the practical purposes of life, we feel almost overwhelmed at the importance and grandeur which the trade has assumed! Referring back but a few years, its presence seems to have been altogether unknown; a few years later, the discovery of its hidden recesses in the mountains, where it had rested undisturbed for countless ages, filled the public mind with a fevered excitement, and gave rise to a spirit of speculation amounting, in fact, to a species of infatuation. A calm—a solemn pause terminated this period; and now, after a few years of soberness, enterprise has been active, and we find the young Coal Trade, "as if born to command," intimately allied with all the great interests of our country, and its existence and prosperity as absolutely necessary as the bread whereof we eat.

In proceeding on our present mission, therefore, the first inquiry which suggests itself is, as to the nature and properties of Coal. Although its vegetable origin is well understood, it is a substance of exceedingly fixed, and, perhaps, the most refractory in nature. It is expected of decomposing sulphuric acid, and separates the sulphur; added to nitreus soid, it inflattes it; or to metallic earths, it reduces them to metalls. But in these processes, the assistance of red least is required. In every instance but those mentioned, Coal seems to be a perfectly unalterable compound, viz. of burning in the open air, and separating oxygen from other bodies;—for it may be expected in close vessels to the most intonse and long continued fite, without suffering the least decomposition of its parts. No disposition to fuse; nor any diminution of weight, can be perceived. It resists the action of the most powerful measures or liquor—liver of sulphur alone excepted.

Relating to the first introduction of Coal in the old world, we have but limited accounts based, too, on doubtful authorities. writers date its use in England as far buck as the tenth century. As early as 1278, how-ever, Coal was dug and used to some extent; but it does not appear to have gained much importance until one or two centuries after-wards. In the early part of the seventienth's century, it was first applied to the smelting of iron—previously to which charcoal was exclu-sively used. The first patent issued for found-Startwort, in the year 1622, whereby he obtained for thirty years the sole right for the whole Kingdom. He, however, did not succeed in business, and in a short time afterwards his patent was abandoned. In 1750 there were only three hundred furnaces in England, yielding about 75,000 tons of metal angually. After the successful application of Coal, this quantity was nearly quastrupled the first year; and about the period that Watt & Bolton's double-pressure steam engine was brought into use, by which the most important advantages were secured, the product was again greatly increased. From about the again greatly increased. From about the year 1798, therefore, the iron-trade of England may be said to have effectually commenced; for from this period up to the present time, the product has annually increased,—increased, we might observe, in exact proportion as new facilities for using Coal were, from time to time, introduced.

Throughout Europe a prejudice had, for a long time, prevailed against the use of Coal for demestic purposes. In Paris its use at a household fuel commenced at about the middle of the sixteenth century; and in Scottand and Wales, as also in Belgium and someother countries, it was introduced about the same time, if not somewhat sateriorly.

—Deposits of Coal have been found in various parts of the United States, and they may be said to form the chief sources of our National wealth, since every branch of Manufactures, Commerce, and Business are interwoven in their product. Allusion was made to some of these deposites as early as in 1670, by some of the explorers and early settlers of the country, in papers which they have left behind.

The Coal in the valley of Wyoming was known, and various experiments made to use it, long before any of the adjacent, or other regions in the United States, had been explored. In the years 1775 and '76, several ark loads of Coal were taken down the Susquehanna river, and hauled to the United States Armory at Carlisle, for the manufacture of fire-arms. This Coal, as we learn from the Report of Mr. Packer, was obtained from land belonging to the late Judge Hollenback, one mile above Wilkesbarre, and near the mouth of the mill-stream. The same bed was opened about twenty years ago, at the place pointed out by the Judge in his life-time, and upon removing the overlaying earth, the marks of tools were plainly perceptible in the Coal seam. In 1768, it is said, this Coal was first used by an ingenius blacksmith, named Obadiah Gore, a settler from Connecticut; and having fully succeeded in applying it to his business, it soon became the only fuel employed by the blacksmiths in the valley. It was first used in a grate by Judge Fell, of Wilkesbarre, in the year 1808, who, to use his words, conceived the idea that, if a body of this Coal were ignited, and confined together, it would burn as a fuel; and to try the experiment, he had a grate erected for the purpose, about eight inches in depth, and twenty-two inches long, and the Coal, after being ignited in it, burned beyond the most sanguine expectation.

Bituminous Coal has been used in Pennsylvania for many years past. From the settlement of Clearfield county to the present period, Coal has been brought down the Susquehanns in arks, and sold in small parcels at the different towns along the river, in Lycoming, Northumberland, Union, Dauphin, Cumberland, York, and Lancaster counties, for the supply of the blacksmiths, who always pre-fered it, for most purposes, to charcoal. The late Samuel Boyd, of Lancaster county, was among the first who conceived the idea of furnishing Coal to the eastern market, and as early as 1785, took up and patented in the then new purchase from the Indians, a tract of land lying on the margin of the river, about three miles above the present town of Clearfield. There is a hill or steep precipice on this land, jutting into the river, containing several successive strata of Coal, which can be shovelled out of the mines into the ark. This could be done, also, in many other places along the banks of the river. His son, William Boyd, in the year 1803, visited the spot, and procured an ark-load of the Coal, which he sent down the Susquehanua by the Spring freshets of the following year, to the town of Columbia, in the county of Lancaster—a distance of two hundred and sixty miles. This, therefore, was the first ark-load of Coal that passed through the Conewago falls to Columbia. About the same time, John Jordan, of Clearfield, sent down an ark-load of Coal, taken from a bed forming the bottom of the river, about a mile above Clearfield. From that time until within a very recent period, (if, in fact, the trade has suffered any diminution at all,) the business of shipping coal down the Susquehanna, in connection with lumber, has been followed by many of the inhabitants of Clearfield county, as a regular means of subsistence.

In the winter season, they do little else than cut down timber, which is no sooner prepared into lumber, than it is converted into rafts and arks;—the latter of which being generally loaded with Coal—and then, awaiting a fovorable stage of water in the Spring, they will launch forth on the voyage to market.

In 1813, Philip Karthaus erected a colliery at the mouth of Little Mushannon creek, and embarked in the mining business somewhat extensively. A few years after, he succeeded in taking a quantity of Coal to Philadelphia, having conveyed it in arks to Port de Posit, the terminus of the Susquebanna, and from thence by sloop through the Chesapeake and Delaware Canal. This was the first ark-load of Bituminous Coal taken to that city from the Susquehanna, and it was readily sold at thirty-three cents per bushel. Mr. Karthaus also took a quantity of Coal to Baltimore, where, after having undergone due tests, it was pronounced to combine all the properties of the best Bituminous Coal-producing the finest coke, as well as hydrogen gas.

—The discovery of Coal in the Lehigh dis-

trict is said to have been purely accidental. There had been legends of long standing, supposed to have emanated from the Indians, that Coal abounded in this section of Pennsylvania; and among some of the credulous german farmers in Lehigh, Berks, Lancaster, &c. one is occasionally reminded of them, and grave intimations thrown out that Coal is reposing in "certain places" beneath the luxuriant soil of those counties. Such traditionary reports prevailed for a long time among the early settlers of the territory now comprising the several counties of the Anthracite Regions, and if similar reports in the counties above named should ever be realized in the same happy manner, all will unite in admiration of the german-stoicism with which they are still maintained by the "older inhabitants." The story of its discovery near Mauch Chunk, in the present county of Carbon, is doubtless already familiar to many. Nevertheless, it is so curious and romantic in itself, and is fraught with such miraculous results upon the physical and mental condition of mankind, that we could scarcely excuse ourself were we to omit it here. The account was given by the late venerable Dr. James, of Philadelphia, who, in the year 1804, in company with An-thony Morris, Esq. of the same city, visited. some lands held jointly by them, near Sharp mountain.

In the course of our pilgrimage—saith the account,—we reached the summit of Mauch Chunk mountain, the present site of the mines or rather quarry of Anthracite Coal. At the time there were only to be seen three or four small pits, which had made the appearance of the commencement of rude wells, into one of which our guide,—Philip Ginter, descended with great ease, and threw up—some pieces of coal for our examination. After which, whilst we lingered on the spot, contemplating the wildness of the scene, honest Philip amused us with the following narrative of the original discovery of this most valuable of minerals, now promising, from its general diffusion, so much of wealth and comfort to a great portion of Pennsylvania.

He said, that when he first took up his residence in that district of country, he built himself a rough cabin in the forest, and supported his family by the proceeds of his rifle; being literally a hunter of the Backwoods. game he shot, including bear and deer, he carried to the nearest store, and exchanged for other necessaries of life. But at this particular time to which he then alluded, he was without a supply of food for his family; and after being out all day with his gun in quest of it, he was returning, towards evening, over the Mauch Chunk Mountain, entirely unsuccoasful and disappointed; a drizzling rain beginning to fall, and night rapidly approaching, he bent his course homeward, considering himself one of the most forsaken of human beings. As he trod slowly over the ground, his foot stumbled against something which, by the stroke, was driven before him; observing it to be black, to distinguish which there was just light enough remaining, he took it up, and as he had often listened to the traditions of the country of the existence of Coal in the vicinity, it occurred to him that this might be a portion of that Stone-Coal, of which he had heard. He accordingly carefully took it with him to the cabin, and the next day carried it to Colonel Jacob Weiss, residing at what was then known by the name of Fort Allen—(erected under the auspices of Dr. Franklin.) The Colonel, who was alive to the subject, brought the specimen with him to Philadelphia, and submitted it to the inspection of John Nicholson and Michael Hillegas, Esqs., and also to Charles Cist, a printer, who ascertained its nature and qualities, and authorized the Colonel to pay Ginter for his discovery, upon his pointing out the precise spot where he found the Coal. This was readily done by acceding to Ginter's proposal of getting through the regular forms of the patent office, the title for a small tract of land, which he supposed had never been taken up, comprising the mill-seat, on which he afterwards built the mill which afforded us the lodging of the preceding night, and which he afterwards was unhappily deprived of by

the claim of a prior survey.

Cist, Weiss, Hillegas, and others, immediately after (about the beginning of the year 1792.) formed the Lehigh Coal Company, but without a charter of incorporation, and took

up between eight and ten thousand acres of unlocated land, including the Mauch Chunk Mountain.

The mine now wrought was opened by this Company, but the difficulties of transporting the Coal to market were then insurmountable, and their enterprize was shortly abandoned This mine remained in a neglected state, used only by the smiths and others of the immediate vicinity, until the year 1807, when William Turnbull caused an ark to be constructed at Lousane, which carried to Philadelphia two or three hundred bushels. A portion was sold to the manager of the water works, for the use of the steam-engine. Upon trial, however, it was deemed rather an extinguisher than an aliment of fire; was rejected as perfectly worthless, and was soon broken up and spread on the walks of the surrounding gar-

des, in the place of gravel.

The legislature, early aware of the importance of the navigation of the Lehigh, passed an act for its improvement in 1771, and others in 1791, '94, '98, 1810, '14 and '16. Under one of these a company associated, and after expending more than 20,000 dollars in clearing out channels, relinquished their design of perfecting the navigation of the river.

In the meanwhile the Coal mine company, desirous to render their property available, granted leases to several individuals successively; the last, for a term of ten years, with the privilege of cutting timber from their lands, for floating the Coal to market, was made to Messrs. Cist, Miner & Robinson, upon the condition that they should send to Philadelphia 10,000 bushels of Coal per annum, for the benefit of the lessees. These gentlemen loaded several arks with Coal, only three of which reached the city, and they abandoned the business at the close of the war in 1815.*

During the war, Virginia Coal became very scarce, and Messrs. White & Erskine Hazard, then engaged in the manufacture of iron wire, at the Falls of the Schuylkill, having learned that Mr. J. Malin had succeeded in the use of the Lehigh Coal at his rolling mill, procured a cart load of it, which cost them a dollar per bushel. This quantity was entirely wasted, without getting up the requisite heat. Another cart load was, however, obtained, and a whold night was spent in endeavoring to make a fire in the furnace, when the hands shut the furnace door, and departed from the mill in . despair. Fortunately, one of them, who had left his jacket in the mill, returning for it in about half an hour, observed the door of the furnace to be red hot, and upon opening it, was surprised to find the interior at a glowing white heat. The other hands were summoned, and four separate parcels of iron were heated by the same fire, and rolled before re-newal. The furnace was then replenished, and as letting the fire alone had succeeded so well, that method was tried again with a like result.

Thenceforth Messrs. White & Hazard con-

^{*}Abridged from the Gazetteer of Pennsylvania-

tinued the use of Anthracite Coal, which they procured from Schuylkill county, in wagons, and occasionally in flats by freshets, and also from Lehigh, in one of Mesers. Miner & Co.'s arks. Thus instructed in the invaluable properties of Anthracite, Messrs. White & Hazard having disposed of their works on the Schuylkill to the city of Philadelphia, turned their attention to the mines of the Lehigh,

with a resolution of creating adequate means for transporting their wealth to market. In January, 1818, they jointly, with Mr. Hants, obtained the control of the lands of the Lehigh Coal mine company. In the succeeding March, the legislature granted to these gentlemen ample power for improving the navigation of the river Lehigh, and vested in them, their heirs and assigns, the absolute and exclusive use of the waters of the river, not incompatible with the navigation, and the right to levy tolls upon boats, rafts, &c., descending the river, and also upon ascending it, in case a slack water navigation should be made, upon condition: 1st. That they made a descending navigation within six years, from the mouth of the Nesquehoning creek to the Delaware, and from the Great Falls to the Nesquehoning, within twenty years. 2. That in case the legislature deemed such navigation sufficient, the grantees should convert the same into a complete slack water navigation, erecting one lock or other devices, overcoming at least six feet fall, yearly, until the whole should be completed. 3. That in case of abuse of the privileges granted, or neglect to complete the slack water navigation, within twenty years after requisition made, that the State might resume the grant. 4. That the State might, after the expiration of thirty-six years from the date of the grant, purchase the rights of the grantees to the navigation. And 5th. That upon such purchase, or resumption, in case of forfeiture, that the State should fulfill all the obligations enjoined by the this act, upon the grantees.

For the purpose of obtaining funds to carry this act into effect, and conduct the mining operations advantageously, Messrs. White, Hents & Hazard, formed, with others, two associations, in July, 1818; the one, denomin-ated "The Lehigh Navigation Company," for whose use, they granted to trustees, by deed dated 10th August, 1818, all the right vested in them by the above mentioned act, to the benefits of the river Lebigh, reserving to themselves certain residuary profits and exclusive privileges in the management of the company; the other, denominated "The Lehigh Coal Company," for whose use they also conveyed to trustees, certain estates in sundry tracts of Coal lands, reserving also to themselves certain residuary profits, and exclusive privileges in the management of such company. themselves certain residuary profits and exclu-

company.

The navigation company commenced the improvement of the Lehigh in August, 1818. Is 1820. Coal was sent to Philadelphia, by an artificial navigation, and sold at \$8.50 per ton delivered at the door of the purchasers. In the same year, the two companies

were amalgamated under the title of The Le-Mesers. White & Hazard, having in the inte-rim acquired the interest of Mr. Hans, ob-tained for themselves in the union, the privileges which had been reserved in the original organization of the separate companies.

By an act of assembly passed 13th February, 1832, the Lehigh Coal and Navigation Compa-

ny was incorporated, and the property of the prior associations, and the privileges created by the act of 1818, were invested in them. Their capital stock was limited to \$1,000,000, divided into shares of \$50 each; and of this capital, their former property formed part.-They were empowered to commence a slack water navigation upon the Lehigh, within a year from the date of the act. To this company Messrs. W. & H. became parties, as simple

stockholders merely. To faciliate the ascent of the river, the company resolved on a lock navigation, on which steam boats might be employed. Accordingly a lock was built at Mauch Chunk, measuring one hundred and thirty-five feet in length, and thirty in width; and the canal, of more than a mile in length, annexed to it, was excavated five feet deep, and its banks lined with stone. But as the mode was very ex-pensive, and the state had commenced the Delaware canal from Easton to Bristol, a change in the plan became expedient; and in 1327, the company having increased their funds by the sale of ten thousand shares, the balance of their capital, determined on making a canal navigation, which should correspond with the Delaware canal. This great work, extending from Easton to Mauch Chunk, a distance of forty-six miles and three quarters, consisting of ten miles of pools, and thirty-six miles and three quarters of canals, was commenced in the summer of 1827, and was in condition to authorize the company to exact toll thereon in July, 1829. The canal is five feet deep, forty-five feet wide at the bottom and sixty feet at top; the banks are firm, and lined chiefly with stone; the locks are twenty-two feet wide and one hundred feet long, and are adapted to pass boats, suited to the Delaware canal, in pairs. The ascent of three hundred and sixty-four feet, is overcome by fifty locks and nine dams. The whole of the river improvement, from its commencement, as a descending navigation to its final completion, as above, cost about \$1,558,000. The toll houses erected along the canal, are of the most substantial and comfertable kind; and in the completion of this noble work, in the lan-guage of a former manager, "there has been no money expended for ornament, though none has been spared to render it sound and per-manent."

-In the districts in the neighborhood of Pottsville, Coal was known to exist more than seventy years ago. Repeated searches had, at various periods, been made; but the coal found was so different from any previously known, that it was deemed utterly valueless—more especially as no means could be devised to ignite it (a character which its name

sufficiently indicates). Secretors for it were abandoned, at least for a time;—when a blackmath, by the name of Whetstene, luckily channed upon some, and immediately under-took to use it in his shop. After experiment-ing with it for a short time, his efforts proved successful, and his triumph having been duly communicated, in the shape of local gessip, to the citizens of the surrounding eeighborhood, attention was very soon after directed to the expediency of instituting further inquiries as to the nature and extent of the deposit, and its applicability for other purposes. Among those who, at a very early period, did not hesitate to declare their belief in the existence of Coal in this district, was the late Judge Cooper; and it was through the influence of such persons that seaches were continued through circumstances and prejudices at once discouraging, and seemingly fool-hardy. mong the first, if they were not the first, who mong the hist, it they were not the hist, who undertook explorations for Coal, were the Mesers. Potts. They made examinations at various points along the old Sunbury read,—but in no instance did success attend them. The late William Morris, soon after the operas of Messrs. Potts were terminated, bec preprietor of mest of the lands lying at the head of the Schuylkill; and about the year 1800 he was fortunate enough to find Coal, and in the same year took a considerable quantity to Philadelphia. It was in vain that be held forth its peculiar virtues, and vast future importance; -all his efforts to convince the people of its adaptation to use, proved abortive, and when, occasionally, an individual was found who could be induced, through the force of argument and eloquence, to coincide in the merits of "stone-coal," the well-known lines,-

A man convinced against his will, Is of the same opinion still,—

would be involuntarily forced upon his mind; —and finally he had no other alternative but to dispose of his lands, and abandon his pro-

jects as altogether fruitless.
We do not know that any farther notice had now been taken of this coal, for six or seven years afterwards. Peter Bastons made some discoveries of its deposit, while erecting the Forge in Schuylkill Valley; and a blacksmith, ed David Berlin, continued to improve upon the suggestions of Whetstone—(who, by this time, had discontinued business, and per-haps left the vicinity) and imparted his sucses freely to others of his craft. But few, however, could be prevailed upon to use them. Prejudice—prejudice was ever keen, and it seemed to keep men of ordinary spirit at a respectful distance. Men of iron nerve could only oppose themselves to the current.

In the latter part of the year 1810, a practi-cal chemist, combining science with practice, made such an analysis of the Coal of this Region, as convinced him that there was inherent in the man all of herent in the mass all the properties suitable for combustion. He, therefore, erected a furnace in a small vacant house on Frontstreet, between Philadelphia and Kensington, to which he applied three strong bellowses.

By this means he obtained such an immense white hear from the Coal, that platina itself easifd have been melted! From this experiment was derived such precis of its qualities a primarialy favorad in sensoral introduction. as, ultimately, favored its general introduction into that city.

But although it might easily be inferred that such experiments could not fail to have secured for it immediate favor, yet such was by ne means the fact. Intelligent men, it is true, calmly deliberated over the subjectbut that was all; the time had not yet arrived for them to act. Two years after this, the late Colonel George Shoemaker and Nicholas Allen discovered Coal on a piece of land which they had but recently purchased,—in times past, called Centreville—situate about one mile from this Borough (Pottsville.) They raised several wagon-loads of Coal, but no purchaser could be found. Mr. Allen soon became disheartened, and disposed of his interest in the lands to his partner; who, having ecsived some faint encouragement from som received some maint encouragement from some citizens of Philadelphia, persevered in his operations. He got out a considerable quantity, and ferwarded ten waggon-loads to Philadelphia, is quest of purchasers. Its arrival there was, as usual, greeted with the warmest probability and there was four who are supported. prejudice, and there were few who appeared to evince any curiosity or interest on the subject. Nearly every one considered it a sort of stone, and saving that itswas a "peculiar stone"—a stone-coal—they would as soon have thought of making fire with any other kind of stone! Among all those who examined the Coals, but two persons could be prevailed upon to use them. They each bought a small quantity, "to try it;" and alas! the trials were unsuccessful! The purchasers denounced Colonel Shoemaker as a vile imposter and an arrant cheat! Their denunciations went forth throughout the city, and the Colonel, disap-pointed and sick at heart, was about leaving the place and abandoning the Coal forever, when he was called on by Mesers. Mellen & Bishep, who took some of the Coal for the purpose of experimenting with it in their relining mill in Delaware county. These experiments were eminently successful, and the resalts having been published in the public jour-nels of Philadelphia, the current of prejudica was suddenly thrown back. Experiments were next made at the iron works at the Falls of the Schuylkill, and also at those at Phonix-ville,—both of which, we believe, proved successful, and the result was again communicated to the press.

From this time forth, the deeply-scated prejudice of the people, against Anthracite Coal, began to yield; and, among the more intelli-gent persons, its future use as a fuel was placed beyond all doubt.

The credit of the first successful application of Coal has been claimed by many, and it is hard to decide, among the numerous competi-tors, as to whose claims to the honor are superior. Having endeavered to present the facts, in an authentic manner, we leave it for the reader to exercise due justice and judgment in the premises.

The first successful experiment to generate steam, with Anthracite Coal, was made in 1825 at the iron works at Phonixville. Previously to this, John Price Wetherell, of Philadel-phie, made several efforts to accomplish this, at his Lead works ;—but we have understood

that he only partially succeeded.

—We will now pass by three or four years,
—during which little worthy of note occurred,—and behold the Coal trade, like the first smiles of infancy, starting into active existence. As early as 1812, the forests in the neighborhood of Philadelphia, as, in fact, in many of the principal towns of the adjoining counties, began rapidly to disappear. Cord wood, and every description of building timber, were held at high prices,—the former, during the winter months, frequently ranging between thirteen and sixteen dollars per cord. . There were no improvements except turn-pike roads, by which the magnificent timber of some of the more distant counties could be reached; and under these circumstances, and as population and business increased, attention was directed to the feasibility of rendering navigable the Schuylkill River. It was originally designed for the products of the forest, the mine and the field—all of which abounded in the counties drained by this stream, and its numerous tributaries. The forests, especially, were remarkable for the quality of the tim-ber, and the height and symmetrical beauty of the trees; and among intelligent capitalists little doubt was now entertained as to the destiny which awaited the product of the mine—satisfied that it needed but a fair start to ensure its onward progress.

The Schuylkill Navigation was incorporated in 1314, without mining and trading privileges, and hence it has ever been the interest of the Company to invite tonnage from all sources and in every quarter. It is one hundred and eight miles in length, and was erected at a cost of nearly three millions of dollars. It was sufficiently complete, in 1818, to allow the descent of several boats, and tolls to the amount of two hundred and thirty dollars comprised the receipts for the season. From this year to 1825, no account was kept of the different articles for which tolls were received, and we are unable, therefore to determine the amount of tonnage on Coal descending the valley, during this period. The Navigation, however, owing to the imperfection of the structure, was not in a favorable condition for the prosecution of business dur-ing any portion of this period. This arose from the obvious inexperience of the people

of that day in canal-building : and obstructions of every description were of course to be ex-pected. Of these, the most frequent were breaks in the banks of the canal, which would not only retard the progress of beats, and render the business extremely hazardous and uncertain, but subjected the Company to heavy expenses for repairs. The revenue to the stockholders was of course very limited; and at no season, we believe previous to 1830, was it sufficient to yield a dividend of over one-half per cent .- while quite as often, a loss would be experienced at the close of the business season.

-From the year 1825, we may safely date the career of the Anthracite Coal Trade. At this time the prejudices of the people against Coal, as a fuel, had, in a great measure, abated. Much suffering was experienced during the winter season on account of the scarcity and high price of wood in Philadelphia; and the increased supply annually necessary for building purposes, tended materially to advocate the substitution of Coal for wood, for demestic purposes. But here a grand revolution and to be effected! New and countly stoves, had to be procured, and it was seeme time ere the founders could venture to introduce castings for burning Anthracite. This, however, was finally done in 1828, when grates for stoves were introduced of such improved construc-tion, that no further difficulty could reasonsbly be suggested. But there was one difficulty which time, the great corrector of all things, "promptly attended to:"—From the lack of bitumen in the Coal, servants were remarkably slew in getting initiated into the modus operandi of making a Coal-fire; and among the catalogue of the essential qualifications for a servant, was placed at the head, that of being able to "kindle and manage a Coalfire." A lack of skill in this particular, would have destroyed the reputation of the best servants-and thanks to their skill-honest reputation was saved.

In 1825, six thousand five hundred tons of Coal were shipped from the vicinity of this borough, and from that time forth, the quantity annually increased. In 1826, over antenand tons were shipped, and in 1827, over thirty-one thousand tons. The prices of Coal at the mines commenced at \$3 08; then \$2 80; and in 1882, the price fell to \$1 51. The annual increase was about 120 per cent.; and the toll on Coal was \$1 00 per ton, while freights rose and fell alternately from \$1 25 to \$2 per ton to Philadelphia. The average price per ton in Philadelphia was between \$5

and \$6 per ton.

MINING OF COAL IN THE ANTHRACITE REGIONS;

HISTORICAL AND DESCRIPTIVE.

LENIGH DISTRICT.—This having been the theatre of the first mining operations in the Schuylkill Region, it may appropriately be the first to receive our attention. The mining here, until recently, was conducted by the Lehigh Coal and Navigation Company; but lately they have leased out their mines ito individual operators, who receive stipulated sums for every ton of coal raised. The plan of mining the Coal in these mines is, in many respects, entirely different from that pursued at other places. This is owing to the peculiar geological structure of the coal deposits.

We have before stated, that as the Schuylkill basin extends to its South-eastern terminus, the Coal strata become almost perpendicular in the dip—just as the joints of a board cance vary in their angle of inclination from the middle of the boat to either end. At the Mauch Chunk summit some violent disruption must have occurred, as we find a seam of Coal of great thickness, and covering an area of some sixty acres, occupying a horizontal position. It forms an anticlinal axis in the middle, and recedes downwards at both ends. How it became displaced, is a phenomenon for which we are unprepared to account.

Mauch Chunk mountain rises precipitately from the Lehigh river, where it is also the head of the Nesquehoning mountain, which at a short distance from the river, diverges from the Mauch Chunk proper, toward the North West. The Mauch Chunk extends South West about thirteen miles, to the Little Schuylkill river, which divides it from the Tuscarora mountains. Panther creek separates it on the North from the radiating hill of Nesquehoning, and the Mauch Chunk creek divides it from the Mahoning on the South. The vallies through which these creeks run, are deep and narrow. Explorations have been made in various parts

of this mountain, and Coal has been discovered through its whole extent.

The celebrated Summit mines, which furnish a large proportion of all the Coal mined by the Lehigh Coal and Navigation Company, are situated on the summit of this mountain, nine miles West of the town of Mauch Chunk.

The Coal directly on the summit is worked in open quarry, and is laid open by the process of "uncovering," the most simple method of mining. This is effected, as the name indicates, by removing or uncovering the upper surface of rock, slate, and earth, which covers the Coal, for a considerable distance in extent, varying in thickness from three to fifteen feet. The excavation is an angular area, and entered: at different points by roads cut around and through the Coal, in some places quite down to the lowest level. The greatest ascertained thickness of Coal at this point is fifty-three feet, but it is commonly from lifteen to forty feet. Several banks of these dimensions are expo-sed, interrupted only by the seams of slave and bony coal running parallel with the strata. In some spots, the Coal lies in a huge horizontal bed or basin for a considerable distance, when it rises at an angle of from 5° to 150. (See msp). In some places the veins are saddle shaped; in some positions, they and the attendant strata are wonderfully contexted and broken, and present every variety of form; in one apot, immediately on the creat of Summit Hill, the great coal basin, from some terrestial revulsion; is completely divided, the space being filled up by a perpendicular mass of Coal twenty-five feet in thickness. However much the coal strata may be disturbed. in certain localities, they usualty, at a short distance from the interruption, return to the general arrangement, as before described in another part of this work. It is impossible to

avoid the impression that some great force has disturbed the original formation, by elevating

or depressing the strata.

It may not be inappropriate here to describe briefly the manner of mining the Coal at the "Great Mine." er open quarry, on Summit Hill. After the work of "uncovering" is effected, the Coal is exposed to view in an unbroken mess, when a number of hands are employed in detaching it from the huge perent bed, in large lumps; which is done by introducing a wedge between the seems running parallel with the strata, when a few taps of the sledge are sufficient to loosen and detach it. Natural joints, running also parallel with the strata, frequently afford an easy mode of separating the Coal in broken masses; the pick alone is here used, which, entering the joint, fractures the rhomboidal structure of the Coal, and thus much time and labor is saved. When the veins are interrupted by a stratification of rock or slate, as is frequently the case, boring becomes necessary, the blast detaching masses of considerable magnitude, which are broken into smaller lumps, with sledge hammers, and afterwards prepared for market by the Coal breaking apparatus, of which a notice is given in another part of this work.

There are Railroads leading through the mines, for the purpose of conveying the Coal to the main road, and others on which the refuse Coal, rock, and rubbish are made to descend in ears, by gravity, to different points, at which such maturials are discharged down the side of the mountain. These Railways are continued over the vallies, and the rubbish thrown from them has formed a number of artificial hills, shaped like a steep roof, and terminating almost abruptly in a descent of hundreds of feet. The cars are guided each by one man, who, at a proper place, knocks open one end and discharges the load. In some instances cars have run off from the end of the Railway, and the guides have been thrown dewa the mountain, but falling among lose rabbish such accidents have not proved fatal. Besides the incombustible refuse, there is small and inferior Coal enough here to supply the fuel for a large city for years. It is not new sufficiently valuable for transportation. Small Coal (Pee) is used successfully at Mauch Chank and elsewhere, in burning lime, and at some future day may be employed in other

Several mines have been recently opened within a mile of the Summit mine, now being worked by contrast for the Lehigh Cost and Massignian Company. (See Statistical Table). They are portions of the same great tense, and present an inexheustible supply of had, while they farnish the means of untold wealth to the individuals and companies who own the land and operate upon them. Besides there are three operations at Room Run, five miles. West of Mauch Chunk, a new operation North-west half a mile from said place; four at Pastther Creek Valley, and one at Springhale—all the property of the Lehigh Coal and Navigation Company. The Coal is

raised at so much per ton, by contract, for the Company, and yields in all, for shipment, about seven hundred and fifty thousand tons

annually. Notwithstanding the great abundance of Ceal on the Summit, hopes of procuring to the summin, hopes of procuring it from a mountain nearer to navigation, induced the company to excavate a tunnel two hundred feet below the precipitous ridge, and within two and a half miles of Mauch Chunk. This great enterprise was commenced on the 1st of March, 1824, before the commenced on the last of March, 1824, before th fore the construction of the rail-way to the "great mine" on Summit Hill, under the impression that the Coal strata here dipped to the South. This supposition proved erroneous, and the company, for that and other reasons, suspended their labors. The tunnel is sixteen feet wide, eight feet high, and penetrates the mountain, through hard conglomorate rock and pudding stone, seven hundred and ninety feet. Three thousand seven hundred and forty-five cubic yards of stone were removed, at an expense of twenty-six thousand eight hundred and twelve dollars, or seven dollars and sixteen cents per cubic yard.-When the Company became satisfied of the present inexpediency of making further progress with the tunnel, they resolved to lay a rail-way from Mauch Chunk to the "Great mine," which they commenced under the direction of the West Chunk to the "Great mine," which they commenced under the direction of the West Chunk to the commence of the way to the commence of the commence ection of Mr. White, then manager, on the 5th January, 1827. Everything about the road—the mine—the descent—the scenery—the shute at the landing is well worthy the attention of the most indifferent observer. The road descends from the mine to the top of the shute at the rate of one hundred feet per mile, and the descent is accomplished, means of gravity, usually in about half an hour. At the top of the hill is a building, containing the machinery, a one hundred horse engine, &c., by which the descent of the loaded cars is governed; the most important part of which is a large cylinder, revolving horizontally, and serving to wind the rope or iron band attached to the cars. The latter are rolled by hand, and by the sid of mules, en a circular platform, which, revelving horizontally upon a perpendicular axis, brings the cars upon a hae with the inclined plane, the cars upon a line with the inclined plane, upon which they are launched. The rapidity of their progress is in a measure checked by the weight of the empty ascending cars, which being fastened at the other end of the rope or band, and intoving on a parallel railway on the same plane, necessarily mioust as rapidly as the loaded cars descend. But the partial counterpoise is insufficient to moderate repeatly the mixed of the descending cars. properly the speed of the descending care.

This object is effectually gained by an iron band which classes the drum, and which, compressed by a leves, controls its motion. Accidents have beau rate in this descent, but the cars have sometimes deviated or broken loose. They are now guarded against by a very simple, yet ingenious contrivance. The rail-way is double until the most rapid part of the descent is passed, when both ways curve and units into one. Should a car beak loose, its

momentum will be so great as to prevent its following the curve, and as soon as it reaches the spot, it is thrown out, over-turned, and ledged on a clay bank formed for this purpose below. Farther down, a bulwark is constructed, overarching the rail-way, to intercept the loose coal as it flies from the cars. When the car arrives at the foot of the inclined plane, it pitches into a downward curve in the rail-way, and a projecting bar, which secures the lower end of the car, and which, for this purpose, is hung on a horizontal axis, knocks it open, and the Coal sides down a steep funnel or chute, into the canal boat, which, receding from the shore by the impulse thus given it, occasions the Coal to spread evenly over its kentom.

The Coal is brought from the mines to the top of the hill in the same manner as described above. The loaded cars ascend, while the empty ones descend, to be again filled.

The Room Run mines, belonging to the same company, occupy a situation in a deflie of the mountain, through which passes a sparkling and bounding rivulet, called Room Run, from which the mines take their name; the distance is four miles and a half from Mauch Chunk. Some twenty veins have been explored, many of which are now being worked, varying in thickness from five to fifty feet. This basin is supposed to be a continuation of that of Mauch Chunk; some of the veins have been traced three miles and a half along the mountain. All of them are accessible above water level, and are worked by drifting, and horizontal tunnels cut frequently through solid rock for a distance of several hundred yards; some of them have great facilities for drainage, and are provided with most desirable roofs and floors of slate, which render them susceptible of cheap excavation. This is especially the case of a twenty-eight feet vein into which three openings at differe elevations have been made, whence coal of the first quality and highest lustre has been taken. Other veins approach so near the surface of the mountain, particularly the vein of fifty feet, that it is wrought by "uncovering" after the manner of the great miss on Summit Hill. It has been observed that the most solid, homogeneous and perfect masses of Coal have been found under the thick strata of slate, with a sharp dip; and that a soft and pliable Coal is to be expected beneath an earthy and porous covering. The cause of the difference would seem to be, that in the first case the atmospheric water is excluded from the Coal, and is carried away by the upper surface of the slate strata, whilst in the second it percolates and softens the Coal, dividing it into small particles, which adhere feebly to each

Professor Silliman describes a peculiar formation of the great bed of fifty feet, and its contiguous strata. They rise in form of a half ellipse, placed on end with the curve

* Abridged from the Gazetteer of Pennsylvania— 1834. uppermost; the form of the mountain of which they are part. There is here, he observes, the most striking appearance that these strata have been raised by force from beneath; and it is difficult to avoid the conviction that they were also broken at the top; for at the upper end of the stratum of Coal, there is a huge rock, twenty feet in two of its dimensions, and five or six in the other, which has been broken off from the roof rock, graywacke, of which it is part, and fallen in; and the Coal seems then to have closed all around and shut it in on all sides, except that in one place on the right hand a little below the top, the rupture is continued to the surface, and that place was then filled and concealed by the loose rabbish and soil, as was also the rock above. These circumstances confirm strongly the truth of the supposition, that an upheaving force, excited with great energy, has bent, dislocated and broken the strata.

This vein is broken by the ravine, and worn down by the stream which peaces through it, but reappears on the opposite side, where it assumes a form more curious and extraordinary. The strata, as in the corresponing part, radiate from the surface, and the interior upper angle, so far as it has been uncovered, is filled with sand stone, arranged in reverse concentric arches, laid so regularly as to have the appearance of having been placed by art. The stones of the respective arches increase their dimension with the size of the arch. The form of these arches would seem to militate against the hypothesis of an eccentric force, unless we presume, what is probably true, that the gravitation of the strata in opposite angles of about forty-five degrees produce this result.

To avail themselves, in the best manner, of these new treasures, the company have made a rajibway of five miles. This road follows the curve of the mountain along the Lehigh for about two miles; and then still winding with the mountain, turns easterly, and runs parallel to the Nesquehoning Creek, to the ravine of the mountain, made by Room Run, which it ascends. The whole of the road from the Coal mines to the landing is descending. On the self-acting plane the descending car will bring up an empty one. The intermediate road is graduated from ten to twelve inches descent in one hundred feet; this being considered the lowest grade on which a loaded car will descend by gravity, and therefore the most favorable one that can be devised, when the freight, as in this case, is all one way.

There are many curious and distinguishing marks, connected with the Coal deposits in this region, which, to be properly understood, should be described in detail, and which the limited extent of our work at present precludes.

The Coal mined in the Beaver Meadow, Spring Mountain, Hazleton, Buck Mountain, Whitehaven districts, &c., is generally sent down the Lehigh Navigation. Senuylkill District.—Like every other branch of business, the mining of Coal has undergone many different changes and improvements, since its commencement. We have frequent cause for astonishment, while regarding the progress of improvement in every department of busy life; and although it would seem, standing upon the platform of the present, and taking in the whole perspective of the past, with its numerous shades, that we have really achieved the ne plus ultra of inventive genius;—still, as the world goes on, new enterprizes are opened—new feelings are instilled, and new desires are to be filled:—so that the field for thought and scientific knowledge is continually enlarged, and the progress of invention must always be proportiouably rapid.

When openings were first made for Coal in the vicinity of Pottsville, the shafts were sunk to the depth of from twenty to thirty feet, and the Coal hoisted in large vessels, by means of a common windlass. As soon as the water become troublesome, which was usually the case after penetrating beyond thirty feet, the shaft was abandoned, and another sunk—and

the same simple process repeated.

This mode, however, was soon superceded by drifts—(or openings above water-level,—running in with a surface sufficiently inclined to drain off the water.) These would be opened at the heads of veins upon the hill-sides, and the Coal brought out in wheel-barrows; but it was not until 1827 that rail-ways were introduced into mines, and from that period until 1834, drifts were the only mode

pursued for mining Coal.

In the meantime, various experiments had been made for the use of shafts, the principal one of which was the substitution of horse-power and the gin, for the windlass, by which they were enabled to clear the water from the shaft with greater facility, and lo-penetrate somewhat farther down on the veins. But with this great improvement, as it was then regarded, they were enabled to run down on the vein for but a comparatively short distance, and the coal was, of couse, inferior; for experience has since demonstrated that the crop of the Coal is never equal to that taken out at lower depths,—when the roof and floor have attained the regularity and hardness so necessary for effective labor, and good Coal.

At the period to which we have alluded, there was a total and perfect absence of every convenience which is now deemed necessary for mining operations. The country itself was,—we were about to say, uninviting;—but such we never could have esteemed it. There never was a more grand, picturesque region,—beautiful at all seasons,—grand in all eyes,—precious to the man of science, the capital—st, and to the whole world of business. But if it be wild and beautiful now, when jealous art has despoiled it, somewhat, of its wild aspect—stripped the mountains of their gaudy foliage, and levelled the venerable and sturdy forest trees to the earth—with here and there one remaining, stripped of bark and branches

—as if intended for monuments to their periabed fellows;—what must it not have been when the howls of the wild-beasts went forth in the solitary depths of the woods,—in the deep ravines and mountain-passes until then unexplored by man? The country, then, clothed in its rich spring garb, fragrant with its wild-flowers—musical with its numerous streams—majestic with its frowning crags and precipices;—in its general range, resembled the green ocean "into tempest tossed," and its silence was the sleep of Nature, when, like a miser, she had finished burying her treasures!

But what we wished to convey is, that the country, at this period, was destitute of those conveniences for sustaining life, and for carrying on a regular business, which are rightfully looked for by the laborer. The only mode of transporting Coal from the mine, was by common wagons, over roads at all seasons bad, and through a country in which, from its mountainous character and wild state, the horse was enabled to accomplish but little, in comparison with what could be done in a

level and more improved country.

But notwithstanding these difficulties, the work was still pursued, and that most assiduously. The prices commanded by Coal afforded but a scanty pittance to the laborers employed, without insuring the least profit to the owner of the lands. Previously, the inhabitants of the country subsisted entirely by their skill in hunting. Every species of game were plenty, and the skins of bears, wolves, wild cats, foxes, &c., as well as the quarters of deers, and birds, were eagerly sought in the country and towns adjacent. The hunters, fow in number, lived in rude cabins far from each other, and there was scarcely apath in the early history of the country, by which the steps of the strenger could be directed.—All the Coal mined anteriorly to 1818, was mostly sold to blacksmiths in the surrounding country;—for to hanl it away for fuel, while wood was still plenty, could not be afforded, nor justified by the economist.

nor justified by the economist.

Although the Schuylkill Navigation, as previously stated, had been completed in 1818, its facilities for transporting Coal were not of such character as to warrant the mining of any considerable quantity. Having been thrown out of repair, time after time, by freshets, its use could by no means be relied upon, and thus, from 1818 to 1825, the trade, if it may be said to have had existence at all, was so extremely limited and uncertain in its general features and prospects, that little attention was bestowed upon it. The whole extent of the trade of the Anthracite regions, from this period to 1824, did not exceed forty thousand tons. In 1825, (the year following,) this amount was nearly doubled,—of which the quantity sent down the Schuylkill was 6,500 tons; that of the Lehigh 28,100 tons, and of the Susque-

hanna no account has been kept.

From this year, therefore, the existence of the Schuylkill trade may be dated—that of the Lehigh having commenced five years pre-

viously.

The introduction of railways into this region, which occurred in 1827, is, perhaps, one of the most important epochs in its history.— The natural arrangement of the country is admirably adapted for grading and laying down railways, and it was on this account that their introduction was more welcome. The Coal seams crop out by the sides of the mountains, and the vallies between them, usually affording small streams, allow sufficient grade to convey the loaded cars to the head of navigation, by gravity. The distinguished credit of handy in our region, is, we believe, assigned to the late Abraham Pott; who constructed one, over half a mile in length, leading from his mines, east of Port Carbon, to the navigation at that place.

Their subsequent introduction into drifts, by which the cars were drawn in the mines by mules, gave a new impulse to the business, and greatly added to the capacity of each operator. In 1826, the amount shipped was nearly seventeen thousand tons, and in 1827, it was over thirty-one thousand tons. In 1828, it reached forty-seven thousand; in 1829, seventy-nine thousand; 1830, eighty-nine thousand; in 1829, seventy-nine thousand; in 1829, seven

and; and in 1831, eighty-one thousand tons.

During this period, Coal was being generally used in stoves, in the more populous towns; and after the grate was introduced into them, which was accomplished more or less successfully between the years 1827 and 1831, the trade began to assume an imposing and gigantic attitude. For no sooner had the people become familiar with its peculiar properties, than its vast future importance in the Arts and Manufactures was readily acknowledged.

In 1826 and '27, large accessions had been made to the population and business of the re-gion. The Schuylkill Navigation had been placed in excellent repair, and interruptions in its navigation were no longer experienced. This happy state of affairs continued until 1829, when a momentary pause was made in the trade,—but it was a pause prophetic only of still greater triumphs-of busier scenesof more active life. It was at this period that scenes of excitement, speculation, and daring enterprize were enacted, which surprised and startled our good old Commonwealth from her Quaker propriety! Capitalists awoke, as if from a dream, and wondered that they had never before realized the importance of the Anthracite trade! What appeared yesterday but as a fly, now assumed the gigantic pro-portions of an elephant! The capitalist who, but a few years previously, laughed at the infatuation of the daring pioneers of the coal trade, now coolly ransacked his papers, and cyphered out his available means, and whenever met on the street, his hand and pockets would be filled with plans of towns-of surveys of Coal lands, and calculations and specifications of railways, canals, and divers other improvements, until now unheard of! land which yesterday would not have com-manded the taxes levied upon it, was now looked upon as "dearer than Plutarch's mine

-richer than gold." Sales were made to a large amount, and in an incredible short space of time, it is estimated that upwards of millions of dollars had been invested in lands in the Schuylkill Coal field alone! and mechanics of all kinds, and from all quarters and nations, flocked to the Coal region, and found ready and constant employment, at the most exorbitant wages. Capitalists, armin-arm with confidential advisers, civil engineers, and grave scientific gentlemen, explored every recess, and solemnly contemplated the present and future value and importance of each particular spot. Houses could not be built fast enough, for where nought but bushes and rubbish were seen one day, a smiling village would be discovered on the morrow. Enterprising carpenters in Philadelphia, and elsewhere along the line of canal, prepared the timber, and framed the house complete, and then placing the material on board a Canal boat, would hasten on to the enchanted spot to dedicate it to its future purposes. whole towns were arriving in the return-ing Canal boats,—and as "they were forced to play the owl," a moon-light night was a god-send to the impatient proprietors-for with the dawning of the morning, would be reflected the future glory of the new town, and the restless visages of scores of anxious lessees. Rents were enormously high; -a frame tenement that had cost perhaps three hundred dollars, if eligibly located, would command at least two hundred dollars per annum.

In laying out a town, and while the proprietor

In laying out a town, and white the proprietor was descanting fluently on its prospects and the great destiny which awaited it, he was asked upon what terms he would dispose of a corner-lot, upon what was intended to be the main thoroughfare. "Five thousand dollars!" said the proprietor. "Why, sir," meekly replied the person in quest of it, "for five thousand dollars I could buy a lot, equally as large, in Philadelphia." "G, my dear sir," said the proprietor, exultingly, "you must not pretend to compare Philadelphia, in a business point of view, with this place! A few years, sir, will render this the great metropolis of trade,—and Philadelphia will be nothing to compare with it."

—In connexion with these scenes, we may here introduce a "Charcoal Sketch" from the pen of the late Joseph C. Neal. He resided in Pottsville during the time he so humorously, yet truthfully describes, and no doubt was one of those "graduates" who was readered wiser for the experience obtained:

wiser for the experience obtained:

We perceive, by the Miners' Journal, that
Potsville—the El Dorado of 1829—has not
shared the fate which is usually allotted to
precocious youngsters, and that it holds a very
respectable rank in point of size and populatien. Well, we are glad of it, for it is a beautiful village, and situated in the bosom of the
most romantic country of which Penusylvania
can boast. But there are many who do not
recall its image with complacency, nor remember its crags and peaks with anything
resembling a glow of satisfaction. The army
of youths who rushed there in 1829 terminated

their expedition in a netweat, like that of Napeleon in Moscow, bringing away with them nething but glory, and as much experience as that amounts to. They will, however, be wiser men, if not richer, for the rest of their lives.

In the memorable year to which we allude, russors of fortunes made at a blow, and competency secured by a tarn of the fingers, come whispering down the Schuylkill and penetrating the city. The ball gathered strength by rolling—young and old were smitten with the desire to march upon the new Peru, rout the aborigines, and sate themselves with wealth. They had merely to go, and play the game boldly, to secure their utmost desire. Rumor declared that Phykins was worth millions, made in a few months, although he had not sixpence to begin with, or to keep grim want from dancing in his pocket. Fortune kept her court in the mountains of Schuylkill county, and all who paid their respects to her in person, found her as kind as their wildest hopes could imagine.

The Ridge-road was well travelled. Reading stared to see the lengthened columns of emigration, and her astonished inhabitants looked with wonder upon the groaning stage-coaches, the hundreds of horsemen, and the thousands of footmen, who streamed through that ancient and respectable Borough, and as for Utima Thule, Orwigsburg, it has not recovered from its fright to this don!

Covered from its fright to this day!

Eight miles further brought the army to the land of milk and honey, and then the sport began—the town was far from large enough to accommodate the new accessions; but they did not come for comfort,—they did not come to stay. They were to be among the mountains, like Sinbad in the valley of dismonds, just long enough to transform themselves from the likeness of Peter the Moneyless into that of a Millionaire; and then they intended to wing their flight to the perfumed sahoons of metropolitan wealth and fashion.—What though they slept in layers on the sanded floors of Troutman's and Shoemaker's bar rooms, and learned to regard it as a favor that they were allowed the accomodation of a roof by paying roundly for it, a few months would pass, and then Aladsin, with the Genius of the Lamp, could not relies a palace or a banquet with more speed than they!

One branch of the adventurers betook themselves to land speculations, and another to the alower process of mining. With the first, mountains, rocks, and valleys changed hands with astonishing rapidity. That which was worth only hundreds in the morning, sold for thousands in the evening, and would command sens of thousands by sunrise—in paper money of that description known among the facetious as alow notes. Days and nights were consumed in serveys and chaffering. There was not a min who did not speak like a Crossus—even your raggest rescal could talk of his hundreds of thiousands.

The tracts of hand, in passing through so many hands, became subdivided, and that brought on another act in the drama of specu-

lation: the manufacture of towns, and the selling of town lots. Every speculator had his town laid out, and many of them had scores of towns. They were, to be sure, lo-cated in the pathless forests; but the future Broadways and Pall Malls were marked upon the trees; and it was anticipated that the time was not far distant when the deers, bears and was not lar distant when the deers, bears and wild-cats would be obliged to give place, and take the gutter side of the belies and beaux of the new cities. How beautifully the towns yet unborn looked upon paper!—the embryo squares, flaunting in pink and yellow, like a tulip show at Amsterdam; and the broad treats intersecting such other at right angles. streets intersecting each other at right angles, in imitation of the common parent, Philadelphia. The skill of the artist was exerted to render them attractive; and the more german text, and the more pink and yellow, the more valuable became the town! The value of a lot, bedaubed with vermillion, was incalcalable, and even a sky parlor location, one edge of which rested upon the side of a perpendicular mountain, the lot running back into the air a hundred feet or so from the level of the earth, by the aid of the paint box, was no despicable bargain: and the corners of Chesnut and Chatham streets, in the town of Caledonia, situated in the centre of an almost impervious laurel swamp, brought a high price in market, for it was illustrated by a patch of yellow ochre!

The bar-rooms were hung round with these brilliant fancy sketches; every man had a roll of incheate towns in the side-pocket of his fustian jacket. The most populous country in the world is not so thickly studded with settlements as the Coal Region was to be; but they remain, unluckily, in state que anti bet-

At some points a few buildings were erected to give an appearance of realizing promises. There was one town with a fine name, which had a great barn of a frame hotel. The building was let for nothing; but after a trial of a few weeks, customers were so scarce at the Red Cow, that the tenant swore roundly he must have it on better terms, or he would give up the lease.

The other branch of our adventurers bent their attention to mining; and they could show you, by the aid of a pencil and piece of paper, the manner in which they must make fortunes, one and all, in a given space of time—expenses, so much; transportation, so much; will sell for so much: leaving a clear profit of—! There was no mistake about the matter. To it they weat; boring the mountains, swamping their money and themselves. The hills awarmed with them; they clustered like bees about a hive; but not a hope was bealized. Calculations, like towns, are one thing on paper, and quite another when brought to the test.

At last the members of the expedition began

At last the members of the expedition began to look haggard and careworn. The justices dense a fine business; and Natty M.—s, Blue Breeches, Pewter-Legs, and other worthies of the catchpole profession, toiled at their vocation with ceaseless activity. When the game

could not be run down at view, it was taken by ambuscade. Several bold navigators discovered that the county had accommodations at Orwigsburg* for gentlemen in trouble. Capiases, securities, and bail.pieces became as familiar as your garter. The play was over, and the farce of "The Devil to Pay" was the after-piece. There was but one step from the sublime to the ridiculous, and Pottsville saw it taken!

Gay gallants, who had but a few months before rolled up the turnpike, swelling with hope, and flushed with expectation, now betook themselves, in the grey of the morn, and then the haze of the evening, with bundle on back—the wardrobe of the Honorable Dick Dowles tied up in a little blue and white pocket handkerchief—to the tow-path, making, in court phrase, "mortal escapes"; and, in the end, a general rush was effected—the army was disbanded—suavi qui peut?"

—The Miner's Journal, in copying the above into its columns, prefaced it with some remarks, which had the effect of calling out the following from the same writer:

There are veterans, yet surviving, who par-ticipated in the chase of speculation, and found themselves "done up" before the game was run down. They remember their day-dreams more vain and fantastic than any ever entertained by Murad, the Unlucky—and recall them, at their leisure moments, to "use for their mirth, yea, for their laughter." It is true they have not broad acres of Coal land, drifted and tunnelled; they have no towns or cities—unless they choose to scribble them on foolscap; nor did they return from the hills laden with the golden fleece: but they are tolerably rich in experience, and have learned to treat disappointment as it should be treated -laugh at it, and deeply con the lesson which it offers. The Pottsville lesson, too, is the best afforded by modern times: and those who took their degrees in that College, may justly boast of being well instructed in all the branches which it professed to teach. Men may forget their classic lore—their mathematics may ooze away; but pecuniary experience—well whipped in—leaves impressions not easily obliterated; and the pupils of the Coal Region University can assert, without fear of contradiction, that their alma mater did not "spare the rod and spoil the child!" They "got it" roundly, and perhaps deserved what they got.

The days of that schooling were pleasant days, after all, to some constitutions. Many hands make light work both of pleasure and pain, and fellowship robs misfortune of its sting—perhaps more effectually than it increases our gratifications. At first, the excitement of pursuing wealth, was sufficient to render the Coal Region a merry place—when men had time to be merry. They were happy, if they had not leisure to show it; and the contracted brow and firm-set mouth of the

Many were the pranks played off, to the annoyance of the more sober-minded. Mockduels were got up in several instances, to rid the town of individuals who were disliked. In two cases, men fled the place, firmly im-pressed with the belief that they had slain their opponents, and though undeceived, never returned: an unjustifiable species of trickery, however, which once had a melancholy termination, as every resident of the Coal Region at the time, and many in Philadelphia, will remember. The town authorities, in endeavoring to preserve proper decorum, fell in for their share of annoyance, and one of them asserted, positively, that an attempt had been made by the youth of the place (while firing out the old year, before his door, with a swivel,) to assassinate him and his family. He even went so far as to produce a large stone to a magistrate, which he solemnly declared had been fired from the aforesaid piece of ordnance into his bed-chamber; but, unluckily, on trial, it was discovered that the missile was several inches larger than the calibre of the piece; and it was therefore gravely decided by his honor, the justice, that, if the stone never went in, it was useless to argue that it had ever been fired out! The case was, therefore, dismissed; but we have no doubt that the worthy dignitary yet believes that his version of the "gun-powder plot" is the true one.

But in these days of scribbling, there will, of course, be published a volume, or more, of Sketches—descriptive, personal, and statistical—of the Coal Region as it is, and as it was; and it is therefore invidious to touch further on the ground. The field is left open to the advanturous wight who will undertake the teak; and if possessed of the proper requisites, he will doubtless find it more profitable than boring holes in rocky mountains proved to be some years ago."

--- "Alas! Poor Yorrick! He was a fellow of infinite jest-excellent good hamor." "After life's fitful fever, he aleeps well! Peace to his sales!"

"The days of speculation, however, were not terminated in '29; and a few words more remain to be said concerning them. Many persons who had purchased lands, moved here with their families, designing to take up their-permanent abode in the Region, and pursue the mining business regularly, as they would farming, or any other calling. But in a ma-

speculator, as he bestrode through the mmd, betokened as much inward delight as ever was typified by the broad grin of the unthinking African. And afterwards, when fair estates and lordly wealth melted from the hand like a grasped snow-ball—why, there were plenty more with fingers as wet, palms aschilled, and faces as rueful. It was the fashion, and all men laughed—each at his neighbor. The great majority were young men, just stepping upon the stage of active life—full of energy and spirit, and proof against care-bounding hearts, that did not ask inspiration from the pocket, and sunk not, even when dunned by importunate creditors.

^{*} At this period (1839-'30) the statute recently repealed, relating to imprisonments for dokt, was in full force.—[EDITOR.

jority of cases, the lands were purchased in large tracts, by companies formed for the purpose, and these, as well as many tracts held by single individuals, were leased out to tenants. These joint-stock companies, or those composed of citizens of other States, obtained charters for the mining of Coal from the Legislatures of their respective States, and thus evaded the statutes of mortmain in force here,—and the lands owned by them were held by deeds of trust, and were thus used and occupied. But no sooner were companies chartered by the Legislature of this State, than a general law was passed escheating the lands of companies formed under charters not granted by this State, and held without its license and consent. This was done in 1833, when the trade had partially recovered from the speculations of the previous years.

It was under such circumstances as these that a vast amount of capital had been expended in the Region, not only in the improvement of the lands, and the facilities for mining coal;—but in the construction of railways, and similar improvements, of the most stupendous character.

The town of Pottsville, which was then as now, the great focus of business and enterprize, sprung from a small village into a town of large pretensions, in a very short time.— Its population trebled annually, while the number of strangers continually arriving and departing, nearly equalled the number of its regular citizens. The hotels were not only crowded, but in fact, were literally filled in every part. An individual who was fortunate enough to possess a bed, enjoyed a kingly luxury. "Tired nature's sweet restorwas, frequently, only to be sought on the sanded floor of the bar-room; and here the lively imagination of Neal, and the broad humor of Wallace, were lulled into dreams -perhaps, not all dreams!—For lying thus one summer's night, sweating in the close air, and endeavoring to keep at bay the common enemy,—musquitoes and fleas,—Mr. N. stretched his limbs, and groaned: "Jim! -I say, Jim: let's get up and rest awhile!"

In contemplating these times, though we camot but laugh at the ludicrous scenes they present, all will admit that they were the indirect and direct means of accomplishing incalculable benefit to the whole country. Nor was it possible, under the circumstances, to restrain the fever of speculation. The real value and resources of the lands were comparatively unknown, and in the hands of those who had no intention of "piercing the bowels of the earth, and bringing forth from the caverns of mountains treasures which shall give strength to our hands, and subject all Nature to our use and pleasure,"—a fectitious value could not but be placed upon them. Calculations were cunningly made of the number of square yards of Coal in an acre, and the quantity each acre was capable of yieldingwithout considering the labor and expense necessary to mine it, or without knowing in fact, that it contained Coal at all, -and exhibiting such calculations, in glaring and bona fde figures, to the bewildered capitalists, land would sell for one hundred dollars an acre to-day; to-morrow for three hundred, and then for five hundred dollars. And when, at last, the tracts were cut up into small parcels, to suit the means of the purchaser, they would presently be esteemed as beautiful locations for towns, and straightway plans were laid out on paper, elegantly printed and colored,—and, finally, the whole would wind up with a sale of "valuable town-lots"—lying, perhaps, in the heart of a swamp, a forest, or upon the brow of a mountain. This last operation, would frequently prove the "noblest Roman of them all;" for although the purchaser might have paid five hundred dollars per acre for the whole plot, he would realize the whole of that sum on a single "corner-los," and if he would make five or six hundred lots, there would be no such thing as estimating his profits!

no such thing as estimating his profits!

People were so excited that nothing could astonish them. New "discoveries" of valuable minerals were made daily. Copper, lead, iron-ore, gold, and silver were by some of the "victims," believed to abound in the Region. A well-known gentleman of Philadelphia, and whose judgement is deemed au fait in all matters of Chemistry, visited here in '30, and before setting out he placed in his coat-pocket a large piece of native silver. Upon his arrival he, he handed over the "massive wedge" to a friend, who, under the pretence of viewing his landed possessions, and making still further explorations, left the hotel in the morning. In the evening, apparently fatigued with his "labors," he returned to the hotel, and while others were discussing the "discoveries" of the day, he cooly observed that he would not exchange his successes for all the coal-lands in Christendom! "I, gentlemen," said he, assuming a very deliberate manner, and a somewhat "mysterious" countenance; "I have discovered one of the most valuable bodies of Silver in the world! And here, to convince you of its quality, I have brought along a small specimen, which I picked up indiscriminately among a wagon load of them," and the speaker proceeded to exhibit the "specimen," coarsely wrapped up in his handkerchief.

"My God! sir,"—said the landlord, in great as tonishment,—"is it possible—why, just feel how heavy it is!" The lucky "discoverer" was now surrounded by the group, and there were some so incredulous that, nowithstanding its weight and "silvery cast," they were not satisfied that it was really silver. It was therefore concluded to wait upon Mr. W. who at the moment happened to be absent. Giving the "specimen" to one of the party, with the understanding of "mum," Mr. W. was called in. That gentleman calmly drew on his spectacles—looked at it—felt it—turned it over. "Why, where did this come from?" said he, musingly. "This is silver—pure silver! I declare, it is the richest specimen of silver I ever saw;—where did it come from, eh?"

The "discoverer" intimated that there was "some more of the same sort left" in the immediate neighborhood, but as for the exact

osality, not being the owner of the lands, it could not, of course, be expected that he should openly disclose the fact until he could secure them.

"But can you find the place again?—did you leave no mark?"

"O yes!—certainly—to be sure! I piled up several stones, and notched several trees hard by."

The next day nothing was talked of but silver mines, and long before daybreak the excited landlord, moved with the laudable impulse of securing the lands—of "plowing deep while sluggards sleep, forsook his pillow and ventured out boldly into "the rheumy and unwholesome air." He was missed at the breakfast table—do. at dinner. A drizzling rain had rendered the day extremely dull, and as few went out in pursuit of their affairs, the hotel was crowded. At last the corpulent form of the landlord, his clothes mudded and thoroughly saturated from the "crown of his hat to the tip of his toe," was perceived descending the hill, and gliding autiously into the back yard. The joke soon eached the "vulgar ear;" and the worthy host was more than once questioned in matters relating to silver mines—and especially as regarded "piled stones and notched trees!"

We shall dismiss this subject with a single mark. The speculating mania had involved hundreds of persons unto utter ruin; and there were few persons of fortune who now ventured, voluntarily and alone, into the mining business. Companies were formed, not only for the purchase of the lands, but also for conducting mining operations upon them; and it was thus hoped, that by concentrating the lands and business of the region into the hands of a few, whose combined capital and influence could silence individual competition, that the trade could be made obedient to their wild schemes. Coal had already been universally adopted; and by withholding supplies when they were absolutely needed, it was thought that it could be made to command from eight to twelve dollars a ton; and then, the price being thus established, another series of "calculations" of the value of each particular acre of Coal land, and fresh ground for speculations, would be laid open. Advocates for Coal companies were consequently not lacking, and many were chartered by the Legislature. But the practical experience of those interested in the trade, soon awakened a powerful opposition to them, and this feeling has existed from very nearly the commencement of the trade until the present time. It was especially active from 1831 to 1839, during which the trade had thrice fallen off, in the gross amount of the annual product, from the years respectively preceding; and during the whole of which period, the influence of the Miners' Journal—the accredited organ of the trade from its commencement in 1825—was directly arrayed against them. The country, through such aid, was happily saved from the calamities which hreatened the trade, and which did much, uring this period, to retard its annual growth.

Nothing worthy of special notice occurred in the progress of the Anthracite trade, until 1838-'39, and 1840. It was during this period, that the attention of intelligent and enterprising citizens was called to the practicability of using Anthracite Coal for the smelting of iron ore. Dr. Geisenheimer, of New-York, had, in the latter part of 1838, and be-fore similar results had been obtained, or at least promulgated in Europe, secured a patent for smelting iron with anthracite and hot blast; but Mr. Crane having, about this time, succeeded in a series of experiments in Wales, having in view the same object, is understood to have purchased the claims of Dr. W., which were as follows:-First: In the application of Anthracite Coal, exclusively or in part, for deoxidating and carbonating iron ore. Second: The application of Anthracite Coal, exclusively or in part, in combining iron in a metallic state, with a greater quantity of carbon; if bar-iron, for steel; if pig or castiron, for a superior quality, &c. Third: The smelting or reducing of iron ore, so deoxidated and carbonated by the application of Anthracite Coal as aforesaid, into pig or cast iron.

Fourth: The refining or converting of iron ore, so deoxidated or carbonated by the application of Anthracite Coal, as aforesaid, into malleable or bar iron. Fifth: The application of Anthracite Coal as a fuel, smelting or reducing iron ore raw or roasted, but not prepared by a separate process of deoxidation and carbonation as above described, into pig or cast iron. Sixth: Though not claiming an exclusive right of the use of heated air for any kind of fuel, nevertheless he claimed the use of heated air, applied upon and in connexion with the said principle and method discovered by him to smelt iron ore in blast furnaces, with Anthracite Coal, by applying a blast of air in such quantity, velocity and density, or under such pressure, as the compactness or density, and the continuity of the Anthracite Coal requires, as above described, &c.

As soon as this transfer was effected, Mr. Crane obtained a patent in this country, which differed slightly from Dr. W.'s. But it was several months anterior to the dates of both these patents that a furnace had been blown in at Mauch Chunk, which used anthracite as the fuel, and this enterprise was followed, in a short time after, by a more extensive and successful one at Pottsville. In consequence of this, and in view of the certainty of litigation, Mr. Crane never insisted upon an observance of his claims by priority of discovery, but, as we are informed, published a card, formally renouncing them.

Experiments for using Anthracite Coal in blast furnaces, had been made at Mauch Chunk in 1820, by the Lehigh Coal Company; and up to the poriod of Mr. Crane's method, vast sums of money had been expended, from time to time, in different parts of Europe, to effect the same object;—but every attempt proved unsuccessful. The thing had been almost entirely abandoned as impracticable, when the great secret seems to have been

imparted simultaneously in Europe and America;—for while Mr. Crane was rejoicing over his triumphs in Wales, three enterprising gentlemen of Reading were repairing and blowing in their furnace at Mauch Chunk-and if not the very one previously abandoned, it was the ground, at least, which had sustained a defeat!

From a letter by Mr. Lowthrop, dated at Beaver Meadows, to Prof. Walter R. Johnson, of Philadelphia, we gather the following interesting particulars concerning this first application of Anthracite Coal fer smelting purposes: The experiments, says Mr. L., were made by Messrs. Joseph Beughman, Julius Guiteau and Henry High, of Reading, in an old furnace which was temporarily fitted up for the purpose. They used about eight per cont. of Authracite, and the result was such as to surprise those who witnessed it, (for it was considered as an impossibility, even by iron masters; and amply sufficient to encourage these engaged in it, to go on. In order, prefore, to test the matter more thoroughly, they built a furnace on a small scale, near the Manch Chunk Weigh-Lock, which was completed during the mouth of July, 1839. The dimensions, &c., were as follows: Stack, 214 feet high, 22 feet square at the base. Boshes, 51 feet across. Hearth, 14 by 16 inches in the square, and 4 feet by 9 inches from the dam stone to the back. The blowing apparatus consisted of 9 cylinders, each 6 feet diameter; a receiver, same diameter, and about 24 feet deep; stroke, 11 inches;—each piston making from 12 to 15 strokes per minute .-An overshot water-wheel, diameter 14 feet; length of bucket, 34 feet; number of buckets, 36; revolutions per minute, from 12 to 15.

The blast was applied August 27th, and the furnace kept in blast until September 10th, when they were obliged to stop in consequence of the apparatus for heating the blast proving to be too temporary. Several tons of iron were produced of Nos. 2 and 3 quality. Temperature of the blast did not exceed 200° Fahrenheit—the proportion of Anthracite used not remembered.

A new and good apparatus for heating the blast was next procured, (at which time Mr. Lowthrop became personally interested in the works,) consisting of 200 feet in length, of cast iron pipes, 1½ inches thick; it was placed in a brick chamber, at the tunnel head, and

heated by a flame issuing thence.

The blast was again applied about the last of November, 1838, and the furnace worked remarkably well for five weeks, exclusively with Anthracite Coal; they were then obliged, for want of ore, to blow out on the 12th of January, 1839. During this experiment, says Mr. L., our doors were open to the public, and we were watched very closely both night and day-for men could hardly believe what they saw with their own eyes, so incredulous was the public in regard to the matter at that time. Some iron masters expressed themselves astonished, that a furnace could work whilst using unburnt, unwashed, frezen ore, such as was put into our furnace. The amount of iron produced, was about 14 tons per day,

when working best, of Nos. 1, 2, and 3 quali--the temperature of the blast being still about 400° Fahrenheit.

The following season the hearth was enlarged to 19 by 21 inches, and 5 feet 3 inches from the dam stone to the back of hearth; and on July 26th, the furnace was again put in blast, and continued in blast until November, 1840,—a few days after the dissolution of the firm, when it was blown out in good order .-For about three months no other kind than Authracite was used, and the product was about 100 tons of iron, good Nos. 1, 2 and 3 quality. When working best, the furnace produced about two tons per day. Temperature of the blast was from 400 to 600° Fahrenheit.

The following ores were used: "Pipe" ore, from Miller's mine, near Allentown; brown hematite, commonly called top mine, or iron-face ore; "rock" ore, from Dickerson's mine in New Jersey; and "Williams township" ore, in Northampton county. The last mentioned ore produced a very strong iron, and when it is considered that these experiments were conducted under circumstances wholly unfavorable, and that the furnace and machinery were thoroughly defective,-the results obtained may be viewed as being in the high-

est degree satisfactory.

In December, 1839, this furnace was blown out, the work discontinued, and the firm dissolved. The furnace at Pottsville having, at this time, been in operation, and its performances having been decidedly superior, the credit of first successfully introducing Anthracite Coal for smelting purposes has been very justly claimed by the citizens of that place. For although the furnace at Mauch Chunk had overcome many difficulties, its abandonment so soon, was by many regarded as prima facia evidence of a failure;—while the other has continued in operation, with short inter-

vals, to the present time.

The Pottsville furnace was completed, and put in blass, on the 26th of October, 1839. under the direction of the celebrated Mr. This gentleman, who had frequently visited Mr. Crane, in Wales, and was familiar with the process adopted by him, declared that the performances of this furnace more than equalled those obtained by that gentle-man. They were, therefore, esteemed as in the highest degree successful, and an intelli-gent from master (Hon. Dr. Eckert,) who had observed its workings, declared that it had triumphed over difficulties and accidents, during the first fortnight of its existence, which would have chilled up any Charcoal works over and over again! The hearth was tapped night and morning, and the yield at each time varied from sixty to sixty-three pigs, equal to about three tons of metal. It is an all important fact, that in charging the stack, nothing but pure Anthracite Coal and iron-ore were used. Not a scrap of old metal, wood or Charcoal was used, except for the mere purpose of first ignition.

The erection of this furnace was mainly accomplished through the efforts of Burd Patterson, Esq., who, from the earliest history of this region, has been identified with every measure of its onward progress. He is still a resident of this Borough, and, as heretofore, stands connected with all new and praise-

worthy enterprizes.

In January, 1840, the furnace having now performed successfully for three months, a deputation, consisting of the late Nicholas Biddle, Thomas Biddle, Isaac Lez, Jesse Rich-ards, J. M. Sanderson, and Dr. B. Kugler, visited this Borough, to inspect the ironworks, and to award a prize of five thousand dollars, subscribed by certain influential citizens of Pennsylvania, to be presented to the individ-ual who would, within a specified time, succeed it smelting a certain amount of iron ore, with Anthracite Coal, &c. This prize was accordingly awarded to the proprietor of the Pottsville Furnace, and therefore settles the question as to the person and place entitled to the credit of having first succeeded in this important enterprize.

The celebration of this event was a happy and brilliant affair, and it was not long ere t Union was filled with the importance of the achievment thus commemorated. The Committee were invited to a dinner at the Mouut Carbon House, and a toast complimental to the distinguished gentlemen composing it, having been offered, Mr. N. Biddle responded to it in behalf of his colleagues, in a speech of great practical learning, and profound elo-quence;—at the conclusion of which, he of-

red the following toest:

Old Pennsylvania—Her sons, like her soil a rough out-side, but solid stuff within ;plenty of Coal to warm her friends-plenty of iron to cool her ememies.

The Pottsville Furnace was soon followed by another in the vicinity, called the Valley Furnace. This was put in blast September 17, 1841, and "succeeded admirably from the first moment of its action." It used the ore

found thom the ground.
The within valuable table, which will exhibit the full perticulars of each Anthracite furnace in the state, erected previous to 1841,

(and which may be regarded as the pionser-works in this country) is compiled from a highly useful work by Prof. Johnson, entitled

Notes on Anthracite Iron, &c. &c. At the latter end of 1342, after the passage of the Tariff act of that year, Anthracite furnaces began very rapidly to multiply. In the fellowing year, they were found in full blast, and others going into operation, in almost every county in the State, where Coal and iron ore were at all accessible. The number continued annually to increase, at an astonishing rate, until very recently, when the duties levied upon all foreign iron having been greatly reduced in the subsequent law, it is deemed impossible, by many intelligent persons, inti-mately associated with our iron interests, for our manufacturers to successfully compete with those of Europe. The duties have been so much reduced, that our markets are virtually thrown open to the British manufacturer;
—fer with the present admirable, cheep and

expeditious means of ocean navigation, and the comparatively low rates of duty,—the disadvantage in point of distance, is amply overcome by the great difference, between the two countries, in the prices of labor. Thus, the duty on a tou of English railroad iron, under the present Tariff law, is nine dollars, and the cost for transporting it to Boston is about five dollars—this being the only charge for crossing the ocean, foreign railroad iro can now be purchased, at long credits, free of all incumbrances, at from \$45 to \$48 per ton.
Now, the prices of wages being much higher
in this country, than in England, refreed iron rufactories for le cannot be made at our man than about \$50 per ton,-while to transport if to Boston, from this State, would cost quite as much as it would from Walse to Boston so that the only actual difference is in the item of duty and labor.

In estimating the value, therefore, of a ton of railroad iron, we must consider the amount of labor bestowed upon it, and in doing this. we find that in this country, labor comprizes its entire value. The Coal and iron ore n sary to produce a ton of railroad iros is not worth more than about two dollars, as they are found in the ground;—it is the subse-quent processes of mining and transportation which so greatly enhance their value. At the furnaces they undergo new transformations, and the product, arrived at the rolling-mill, is again subjected to various changes, until finally wrought into rails. Now, in tracing its history forward to this last and most important change, we find that labor has done the whole but ness, and it is labor, therefore, which is re-warded when it commands a fair and just

price in market.

Under the former act, numerous manufa tories of railroad iron were erected, in various parts of the country, at each of which from two to four hundred persons were employed. The wages, as we well know, varied from \$1,25 to \$3 per day, according to the particular work performed; and in one department, as high as from \$6 to \$6 per day was realized and justly earned. Now, although the payment of such sums for labor, most materially increase the price of the man-ufactured article;—yet it is a fact, well known, that our manufacturers furnished rails at less prices than did those of Europe previously to the passage of that act, when no railroad menufactories had been erected in this country, and when it was deposited on our shores free

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But it is not alone the absence of protection which cripples our manufacturers, and fills the market with the fruits of foreign labor; it is the want of stability—the fluctuating and unsteady policy which has characterized our government of late years. Capitalists are ustly timid in investing funds in any new enterprize, however promising; and to make themselves secure, their first step is to obtain prisileges from the Legislature, which are not extended generally over the whole people.

Now, many persons dispute the right of government to extend privileges to any class of

seen—believing that our Republican system should act by general, not by partial. Aswa.— But when we reflect that, scarcely is a wholesome, consistent policy of government marked cut, than a new administration takes possession of our Capitol and Legislative halls, and at once reverses the whole policy—changing "protection" to "free trade," and "advalorem duties" to "discriminating duties;"—it will be perceived how uncertain and precarious the manufacturing interests of our country are rendered. It is only by the combination of individual capital, and the union of all the facilities necessary for carrying on business on the most extensive scale, that our manufacturers can realize a fair, living profit. Individual enterprize is stifled;—it cannot withstand the powerful companies;—again, companies caunot withstand the foreign manufacturers;—when the crisis becomes insupportable, they must suspend operations—and now, let us inquire, who is it that suffer most?—the owners of the manufactory, or these thus

thrown out of employment? But the advocates of free trade tell us that we obtain foreign goods cheaper than we could ourselves manufacture them. This is not so. First, we raise the cotton, which is carried in bales to a commission merchant, who ships it to Liverpool at a profit. The shipper makes a profit for carrying it over the sea, and, arrived at Liverpool, the consignee makes a pro-fit on storage, &c. It is now sold to the manufacturer, who converts it into goods; the goods are sent in packages to the merchant, who sends them to the ship, to be returned to this country. Arrived again on our shores, the manufactured goods change hands perhaps four or five times ere they reach those of the consumer ;-and here we find that the greater walks of the article is comprized in the proportion in which it has travelled and changed hands—like a traveller on a turnpike, the more gates he passes, the more toll he must pay. Now, would it not be wiser for us, who raise and consume all, instead of paying commissions and freights, and sending annually millions of our best currency abroad;—to retain the raw material at home, and thus give employment to our farmers, mechanics and laborers? The amount saved in commissions and freights would more than make up the ular, consistent policy of government would give a sure, sound and true basis for the cap-ital, and enterprise, and industry of the whole country. We do not throw out these brief hints because we entertain similar views as a politician; -- we believe them to be essential, specially to our Coal and iron interests,—and when a fact is rendered thus plain, we can feel no personal sacrifice in honestly standing by it, without reference to mere partisen feeling.

We desired, more especially, to allude to the peculiar and important advantages enjoyed by this Region, over other sections of country, for the manufacture of every description of iron. It was, indeed, the appropriate theatre for the first successful operations of the Authracite Furnace; and its claims for present and future consideration, in the same connection, cannot be thrown aside. There are several features associated here, of vast importance to the iron manufacturer, which could not possibly be combined elsewhere in the same high degree. These have been repeatedly pointed out by the editor of the Miners' Journal, and in casting our eye over successive numbers of that valuable publication, and observing the substantial arguments, and the persevering efforts of the editor to awaken the spirit of enterprize in the public, in relation to this interesting branch of business, we are astonished that so little has been done. The great and all-important matter is Coal. Important it unquestionably has proven itself to be;—yet iron ore may be called its twin brother; they repose in the same bed; the one subserves the other; and, in all respects, they are alike essential for the common uses of mankind. A recent writer in the Jour-

nal named, speaks as follows:

"The principal ore used in England and Scotland, is the carbonate of iron of the Coal measures; this ore yields from 30 to 33 per cent. of iron. It is found in strata or beds varying from 3 to 13 inches in thickness, and produces an iron of excellent quality. The following extract, taken from Dr. Ures' work on Arts and Manufactures, may not be uninteresting to the reader. After giving the analysis of some of the best ores from the English and Welsh Coal basins, he says: The mean richness of the ores of carbonate of iron of these Coal basins, is not far from 33 per cent.-about 28 per cent. is dissipated on an average in the roasting of the ores. Every fuliginous clay-stone is regarded as an ironore, when it contains more than 20 per cent. of metal; and it is paid for according to its quality. The ore must be roasted before it is fit for the blast furnace: a process carried on in the open air. A heap of ore mingled with small coal, (if necessary) is piled up over a stratum of large pieces of Coal; and the heap may be six or seven feet high, by 15 or 20 broad. The fire is applied at the windward end, and after it has burned a certain way, the heap is prolonged at the other extremity, as far as the nature of the ground or the cor venience of the work requires. The quantity of Coal requisite for roasting the ore varies from one to four hundred weight per ton, se-cording to the portion of bituminous matter associated with theiron stone. The ore looses in this operation from 25 to 30 per cent. of its weight. Three and a quarter tons of crude ore or two and a quarter tons of roasted ore, are required to produce a ton of cast iron; that is to say, the crude material yields on an average 30.7 per cent. and the roasted ore 44.4 of pig metal. In most smelting works in Staffordshire, about equal weights of the rich ore in sound nodules, called gubbin, and the poorer ore in cakes, called blue flat, are employed together in their roasted state; but the proportions are raised in order to have an uniform mixture capable of yielding from 30 to 33 per cent. of metal, To heat two and one-quarter tons of roasted ore, which furnish one ton of pig iron, nineteen hundred weight of limestone are employed; constituting nearly one of limestone for three of unroasted ore per ton.

Until the year 1740, iron was made in England almost exclusively with charcoal, and prior to that period none of the iron stones of the Coal region were used; but as soon as the iron manufacturers found it necessary to locate themselves in the Coal region for the purpose of being convenient to the new kind of fuel that they were about to adopt, they found the necessity of searching for ore nearer their works than the magnetic ores that they had been in the habit of using were; the result was, that an abundance of excellent ore was discovered in the Coal regions in the immediate vicinity of their works, and although it did not yield so high a per centage of iron as the magnetic ores, they found it more profitable than transporting richer ores from a distance.

With regard to this region, a like result has been experienced; for it was not until after the erection of the furnace at this place, that any investigations had been instituted as to whether iron ore was to be obtained or not. But no sooner had explorations commenced than new and large deposits of iron ore were found daily, and the ore pronounced to be of an excellent quality. Mr. Benj. Perry, the intelligent Anthracite founder, has visited several of these mines, and gave it as his opinion that any number of furnaces could be supplied with ore for an indefinite time.

In comparing the ores of this country with those of England and Wales, we find the average richness of the ores nearly the same; but we have a decided and important advantage in the thickness of the veins, many of which being upwards of three feet thick, and from that down to six inches. The average richness of the ores taken from the Coal re-gions of England and Wales, is about 33 per cent. The average richness of eight specimens of ore, taken from the Pottsville Coal region, was 33.18 of metallic ore. These specimens were analysed under the direction of Prof. Rodgers, late State Geologist-some of them yielding 39, 38 and 37 per cent., and all taken from different veins. Prof. R. in his fourth annual report to the Legislature of this state, speaking of these ores, says: " Especial care has been taken to submit to chemical examination, such specimens only as represent the average character of their respective beds, -choosing those freshly opened in the mines, or in some deep excavation, and rejecting, as far as possible, samples gathered from the outcrop, or found loose on the surface; as they invariably contain too high a per centage to prove a fair criterion, &c.

The presence of inexhaustible supplies of coal and iron ore, suggests an important advantage in the comparatively limited capital necessary to carry on iron works. For while iron masters in other sections of country are

compelled, at all seasons, to keep on hand a large supply of coal and ore,—no such necesity would exist here. Supplies could be procured in small quantities, as desired for immediate use, and the necessity of buying large quantities at high prices, is thus entirely overcome. The same argument holds good, as regards means of transportation, and speedy and cheap access to market. While iron works at many places have no avenue to market during the winter, and are consequently compelled to retain a large stock of their manufacturer here could send it to market in such quantities, and at such times, as the prices might justify.

We may next consider the cheapsess of the fuel, as well as of the ores used. For the former, the fine refuse Coal that has been crowding our mines and landings for years past, is now brought into use for generating steam, and heating the blast,—and besides answering admirably the purpose,—it is afforded free of charge, and delivered to the furnace, by the Coal operators,—so anxious are they to get rid of the large quantities annually accumulated about their premises. This, it will be granted, is an important consideration.

There is another consideration, with regard to those locations where the advantages of the situation consist merely in being in the immediate vicinity of the ore. After the smelting of the ore into pig metal is accomplished, no more ore is required;—but in the process of making bar-iren, about feur tons of Coal are necessary to manufacture one ton of the latter,—so that, independent of the saving in the cost of making pig metal in the Coal region, the saving in converting it into barrion, at a large rolling mill, would be immense.

The Middle Anthracite Region, as we are assured by our friend, William F. Roberts, holds out inducements of the most favorable character for the investment of capital, in all the branches of iron making and iron manufactures. The Coal is of superior quality, and may be mined at very low rates. Its iron ore is rich and in abundance, while it has other important facilities for iron-making establishments to operate with the greatest economy and profit.

The lands of the Dauphin Coal Company, we may add, are also admirably calculated to sustain extensive iron establishments. Taking in view the admirable outlets to market, and the peculiar character of the Coal, and richness of the iron ore—they may be said to enjoy unequalled advantages for this branch of manufactures.

But our limits warn us from entering further into this subject, and we shall, therefore, conclude our remarks with the presentation of the following table, which will exhibit the iron trade of Philadelphis during the years specified, and indicate the importance of the trade of the entire state when the present tariff law went into effect. What it will be during the next two years, remains to be seen:

Iron Trade of Philadelphia:

& De	1847. Pig iron at 88,131,239 47,030,081	1947. 1846. Pig Iron and Candings. 88,131,639 63,334,083 47,030,031 48,193,061	# 4 8
ware Canal, ylkill Canal, ing Railroad,	47,020,021 15,963,480 14,778,510	9.1193.081 9.114.840	8,442,560 387,852 8,442,560
Columbia Railroad, Norristown Railroad,	9,146,500 10.075,880	2,549,600 10,588,789	31,506,500 3,184,390
Total	185,115,270	150,918,633	78,944,763 39,565,949
Equal to, in tons.	82,640	67,392	32,252
ł	Nails and S	Spikes.	Blooms
Columbia " Noiristown "	8,743,490 7,213,700	7.951,670 21,500	1,323,300
Ches. & Del. Canal, Schuylkill Canal,	1,634,877	1,612,800	3,339,840
Total,	19,508,777	10,037,736	6,990,070
Equal to, is tons,	196,597	15.53 15.53	2,808

We shall now resume the subject of Mining, and briefly, allude to some of the principal improvements lately introduced.

In January, 1832, the Coal Mining Association of Schuylkill County, was formed. It was composed exclusively of master colliers, and those immediately concerned in the mining affairs of this Region; and the object was to collect and disseminate to and among the manheer useful information connected with the trade, and the practical operations of Mining. Upon its organization, Burd Patterson, Esq., was elected Bresident; and John C. Offseman, Esq., vise-Brasident. Samuel Lewis, Esq., was elected Treamer; and Andrew Russell and Charles. Lawton, Esqs., Secretaries. The Beard of Trade was composed of B. H. Saringan; Samuel Brook; Samuel J. Potts; M. Breck Buckley; James E. White; Thomas S. Ridgway; and Mastin Weaver. The offsem were elected annually; and it was the day of the Committee on Trade to report armuly to the Association the state and future properts of the Coal Trade of the Region. This was negularly done until last year, when no Beport appeared.

The officers of the Association for 1847; (since which time none have been elected) were as follows: Bresident, Thomas C. Williams, Esq.; Vice President, Francis B. Nicholls, Esq. (since deceased). Treasures, George H. Rotts, Esq. Beard of Trade,—George H. Potts; T. G. Williams; A. Bolton; A. B. Wihits; C. De Forest; John Pinkerton; J. G.

After the introduction of railways, there esems to have, been little done in the way of improvements, to facilitate the operation of mining. But without tracing, in regular order, the introduction of each new feature, as the present is contradistinguished from the

past, we shall at once proceed to explain the modus operand; of mining, as observed in the present day.

In the first place, it may be necessary to premise that the range of all the Coal veins in the Schuylkill hasin is East and West,—converging to the eastward, and diverging westward, with such slight variation from the general rule, as not to be worthy of notice. The dip of the veins is to the South; and their angle of inclination from the horizon varies from 30° to 40°, parallel, in all cases, with the surrounding strata. From 1833 the number of operations below water level have annually increased, in a regular per centage with the increase of the trade. As they are the most extensive, and would, perhaps, prove most interesting to the stranger, we shall now describe the minuties of which they are comprized.

When a vain of Coal is being worked below water-level, a steam engine and pumps are necessary to raise up the accumulated water in the mine; for below water-level means, simply, that the Coal is being mined at some point below the bed of the adjacent river, creek, or rivulet. The first step to be taken at the commencement of an operation of this kind, is to ascertain where the vein crops out to the surface, or so near to the surface as to be easily found, from a previous knowledge of the range of the vein. A favorable location must then be selected, twenty or thirty feet to the northward of the crop of the vein, for the location of a stationery steam-engine. This must be where a sufficiency of water can be had for the supply of the steam-boilers; and if not near to a main Railroad, prudence will dictate that it must be so situated that a branch or lateral road can be laid down near the place where the Engine is to be erected. The descent into the mine is called a Slees, and thus those mines below, water-lever, called Slopes, are contradictinguished from those above water-level, called Drifts. Engines erected for the purpose of hoisting the Coal up the Slope, and pumping the water out of the mine, are usually of the capacity of fire forty, fifty, and sixty home-power, nearly all home-power and weeking ty, nay, and axry none-power, meany as borizontal high-pressure engines, and working with a slide-valve. They are generally built in a very neat, simple, as well as a strong and efficient manner—invariably, encoted by the mechanics of the Coal Region.*

^{*} The machinists of this county are not excelled by those of any other locality in the United States.— The principal establishments are those of Maywood & Snyder; John L. Pott; & W. M'Ginnis; J. T. Werner; and one now being arected by Elias Deer,—all in Pottsville. In Minerville, William De Haven has an extensive establishment: in Port Carbon, Tobias Winterstein; in Tressont, P. Umholts & Co.; in Tamaqua, Hudson, Smith & Taylor, besides several others of minor importance.

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thickness, (rarely exceeding the latter figure). Those of from six to ten feet are considered best, as they can be worked with greater facility and profit. They can be so propped and

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Number of strokes per minute.	Height of wheel.	Length of buckets.	Depth of buckets.	Revolutions per minute.	Head and fall in feet.	Horse pow-
	feet.	feet.	inches.			
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full extent of the breast is opened out, and the shute is continued up the centre, down which the Coal sides into a car in the gangway. When the Coal is dug out, the roof is supported by props of timber, placed at a distance from each other varying from 'six to eight or ten feet, as the roof may be found to be substantial or indifferent. The seams of Coal vary from two to twenty-five feet in

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Iron Trade of Philadelphia:

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The location of the engine being determined upon, a slope, or inclined-plane, must be driven down in the vein, and consequently at the same angle of inclination. The thickness of the vein is usually excavated, and the slope must be sufficiently wide to admit of two rail-way tracks, from thirty-six to forty inches wide each, to be laid down; with room, also, for the pumps on one side, (and sometimes beth sides) and travelling road on the other side (or sometimes between the two rail-way tracks) for the miners and laborers;—the whole width of the slope being usually from eighteen to twenty two feet. The slope is driven down about two hundred feet for the first level—at the bottom of which the gangways are commenced, running at right-angles from the slope, East and West in the vein, and are continued at distances discretionary with the operator, or to the extremity of his mining limits. The slope and the gangways form a capital-T. The gangways are frequently driven one, two, and three miles, with turn-outs at intervals for trains to pass each other. They are made about seven feet high, and sufficiently wide to admit a railread track to be laid down, on which a well-loaded car, having from one to two tons of Coal, may pass freely. The cars are hauled to and fro by horses and mules—the latter being preferred, as well because of their diminutive size, as for their stamina. The gangways being driven in a sufficient distance from the bottom of the slope, the next thing is to commence digging out or mining the Coal. The Coal in the vein is left undisturbed on each side of the slope, to a distance of thirty or forty feet East and West, and extending all the way up to the surface—the Coal thus left, in mining phraseology, is called *pillars*, and is suffered to remain for the purpose of strengthening or supporting the slope; as, in an extensive mine, and in a good vein, its use may be required for a great number of years. A pillar of Coal of some twenty feet in width is also left all along the upper side of the gangway, and shove this pillar, and up to the surface, all the Coal is worked out. The plan of working adopted by miners is this: two miners and a laborer usually work a breast, (like the swarth of a crader in the harvest field,) usually from thirty to forty feet in width from the pillar above the gangway up to the surface. They make an opening from the gangway through the pillar above, about where the centre of the breast will be, of four or five feet wide, for a shute; after which the full extent of the breast is opened out, and the shute is continued up the centre, down which the Coal slides into a car in the gangway. When the Coal is dug out, the roof is supported by props of timber, placed at a distance from each other varying from six to eight or ten feet, as the roof may be found to be substantial or indifferent. The seams of Coal vary from two to twenty-five feet in

thickness, (rarely exceeding the latter figure). Those of from six to ten feet are considered best, as they can be worked with greater facility and profit. They can be so propped and rooted as to enable the miner to take out every particle of Coal without the slightest danger of accident;—while those of greater thickness must be worked in chambers, and large pillars of Coal left standing to support the roof; and even then the miner is exposed to danger from the pieces falling continually down.

From ten to fifty of these breasts are worked simultaneously up to the surface; after which, if the gangway is far enough extended, new ones are commenced, and the same operation repeated, until all the Coal on that level is worked out. When this is done, the alope must again be driven down some two or three hundred feet; gangways again opened, railways laid down, and the same process of mining the Coal continued. And thus the miner gradually gets deeper and deeper into the breast of the earth, and to reward his industry and perseverance, Nature has provided the purest and best Coal low down, so that the farther down he ventures, the better and richer becomes his reward!

The deeper the mine, however, the more difficulty is experienced in keeping the works properly ventillated with fresh and wholesome air; and nothing but long practical experience can furnish a through knowledge of this very important branch of the mining business. We shall reserve some remarks which we intend to offer on this subject, for the concla-

sion of the present article.

Going, now, to the shutes in the gangway, we find cars loaded with Coal. A mule, which is in most cases used, will draw three or four of these loaded cars to the foot of the slope where they are left, and empty cars haufed back, to be loaded. One of the loaded cars is then pushed upon a turning platform, by a person stationed there for that purpose: he places the car fairly for the railroad track in the slope, attaches the chain to it, draws the pull of the bed as a signed to inform those above that "all is ready," and it is hoisted up the slope by the engine, while an empty car descends, at the same time, on the other track. The car of Coal being now brought to the top, it is unhitched, pushed aside, and an empty car pushed into its place, booked to the chain, and, a leaded car being now attached on the other track, the bell is again rung, and the empty car descends and the leaded one ascends, as before. This hoisting and lowering of cars is always going on with despetch dur-ing the day-time, and sometimes during the whole night—there being always two sets of hands and miners, one for the day and the other for the night. The time usually occuother for the light. The time that of cost, which includes attaching to and detaching the car from the chain, Sc. Where from one to two hundred tons of Coal are prepared and shipped daily, (besides the refuse and accumulated rubbish of the mine, which must be brought up) it will be seen that it forms one

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of the most acties parts of the business—re-quiring regularity, despatch, and permanency in the machinery, and the strictest attention and skill in the hands. Accidents seldom decur; the only danger which is suggested to the stranger, is in the strength of the rope or chain. If this should break, as is sometimes the case, whoever may be at the bottom of the slope will be in imminent peril with his or their lives.

We now come to a feature in the process of preparing Coal, which has completely re-volutionized the former plans and instruments

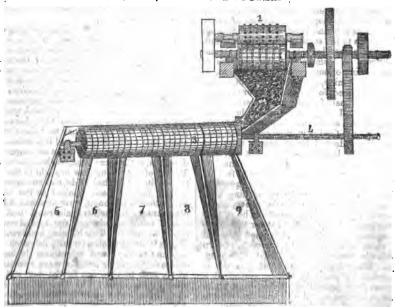
-we allude to Coal Breakers.

Previous to 1844, Coal was broken almost entirely by hand—there was but one machine in use, invented by Asron Vancleve, consisting of a horizontal plate, perforated with holes, and a heavy roller running over the Coal, which was had on the plate. It was used nearly a year at the Beaver Meadow Mines, when it was thrown aside.

There had been two experiments tried at the mines of Charles Potts, in this county;the first consisted of a hollow cylinder, with points, and an upright roller,-presenting something in the shape of a bark mill, or coffee mill, as, in fact, they are now called. The other consisted of spring-hammers, placed on a revolving cylinder, striking from the under side of the grate through the spaces, so as to strike the Coal laying upon it. Both of these were soon abandoned—plates having now come into general use. These plates had holes, so that as the Coal was broken it would fall through, while the larger pieces would roll over it. This was accomplished by hand, the instrument used being similar to that used for breaking turnpike stones. To break and screen three tons, was considered a day's work for one man.

On the 28th of February, 1844, Mesers. J. & S. Battin, of Philadelphia, started one of their Breakers at the mines of Gideon Bast, in this county. The Breaker consists of four rollers, two of which are on cylinders about thirty inches long and thirty in diameter, with projections or teeth about two and a half inches long, and four inches wide, from centre to centre. The cylinders are placed in a horizontal position, and are so geared with cogs, that they turn round at the top towards each other, and bring the teeth on each cylinder opposite to the spaces on the other. Above these are placed two other cylinders, with larger teeth and farther apart, geared and arranged in the same manner, which break the larger lumps of Coal before they are suffered to reach the lower or finishing cylinders.

FRONT VIEW OF COAL BREAKER.



- 1 Batten's Breaker, beneath which Perforated
- Hopper, receives the Coal after it is broken.
- 8 Screens, with apartments for various sizes Coal.
- 4 Shaft, attached to Screen.

Shute, receives Large Coal.

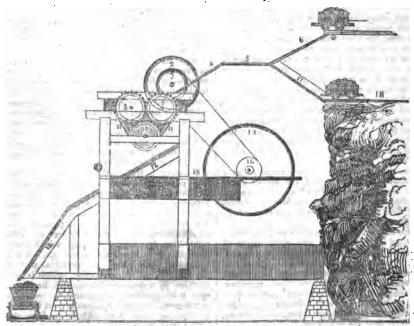
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- Broken " "
 - " " Stove -
- æ, " Egg
- 8

The Breaker machinery is erected as near to the top of the slope as local circumstances will admit, and considerable elevation is necessary in order to break and prepare the Coal at as little expense as possible. The side of a hill is usually preferred, as a railroad to conduct the loaded car from the mouth of the slope to the Breaker can easily be constructed, and will thus avoid the expenses of ropes, &c. for an inclined plane, upon which to haul up the loaded cars. The Breakers are all turned by steam, with but a few exceptions. An engine of twelve or fifteen horse-power is requisite for driving the Breaker, and turning the circular screens, and they are built on the same plan as the larger engines for hoisting and pumping water. The Breaker rollers are of cast iron, placed in very stong, compact frame-work, and turned, as before stated, by means of a belt and gearing-wheels. The most approved rollers now in use, are those of Mesers. Haywood & Snyder-being perforated between the teeth, they are a decided improvement upon the solid periphery-rollers of the Messrs. Battin, inasmuch as there is less solid surface presented to the Coal in break: ing, and, consequently, less crushing, and less Coal wasted in dirt.

The loaded car being brought to the head of the breaker, it is dumped, and the Coal spilled into a small shute, which conducts it into the Breaker. The Coal passes between and through the rollers, and thence falls into circular screens, which are made to revolve continually by the engine. The screen is so constructed and arranged, that the different sizes of Coal will fall into their respective apartments below. (See engraving.) For instance: We imagine a screen twenty feet long,-in the first five feet, the holes of the screen are quite small; the next five feet the holes are larger; the next larger again, and the next still larger. This is the manner of When the Coal falls into the the screen. screen from the Breaker, it is in all sizes and shapes—but as it enters the cylinder it falls into apartments below, entirely separate from each other. Henry Jenkins, of this borough, has secured a patent for the manufacture of screens for this purpose. Previously

SIDE VIEW OF COAL BREAKER.



- 1 Fly Wheel of Breaker.
- Pully on Fly Wheel Shaft.
- Breaker Shaft.
- Shute for conveying Coal to Breaker.
- Landing.
- Tip Shute from Rail-road.
- Tip.
- 8 Solid Breaker.
- 9 Perforated do.

- 10 Screen.
- 11 Hopper.
- 12 Shutes for receiving Coal from Screen.
- 13 Fly Wheel for Engine.
- 14 Pulley on Engine Shaft. 15 Bed Plates for Engine:
- 16 Place for Boiler.
- Inclined Plane.
- 18 Rail-road from Mines.

te the introduction of Breakers, the Coal was screened by hand. The screen was from 5 to 8 feet long, and from 1½ to 2½ feet in diameter, and placed in a frame, slightly inclined. As the Coal entered the more elevated end, the screen was turned round by hand, like a grindstone. When Breakers were introduced, the screens, as previously, were constructed of bar iron, riveted on frame work. But great trouble and expense was experienced, from their liability to break, and the difficulty of repairing them, the whole work being necessarily stepped until this was accomplished. Mr. Jenkin's attention was soon attracted to this subject, and it was not long ere his mechanical ingenuity suggested a remedy. He accordingly invented a machine, by which the largest and thickest wire is wrought into shape suitable for weaving; and being woven together in frames about three feet wide, the frames are placed over a large cylinder, round-ded, and joined together with strong rivets, and iron bars. The screen, thus complete, is removed from the bench, and joined with another of the same dimensions, but of larger or smaller nett-work. These screens are remarkably durable, and are not the least feature which have tended to bring Coal Breakers into universal use.

After the Coal leaves the screen, and falls into its appropriate shutes, railroad cars are hauled immediately along side the openings, which, being raised up like the wickets in a mill dam, the Coal falls out into the car, and when a sufficient quantity is obtained, the chute is closed, and then the Coal leaves forever the scenes of its past history, and is borne off to its future destiny.

The above principle can easily be made to break a ton of Coal per minute, and as before stated, has already made an entire revolution in the modes of breaking Coal. There are now about sixty of Battin's Breakers in use in the Coal regions, being nearly double the number of all other kinds,—of which there are some half dozen.

The within engravings may assist to give the reader a correct idea of the modus eperands we have been describing,—but we are satisfied they will not impress him very favorably with the present state of the fine arts in our country!

The size of chain generally used for hoisting Coal is three-fourths and seven-eights of an inch; formerly smaller chains were used, and, in fact, smaller engines and lighter machinery; but long experience and heavy bills of repairs, have taught the Coal operators that engines, pumps, gearings, chains, &c., &c., must be strong and substantial in order to withstand the incessant lifting and straining to which they are subjected.

to which they are subjected.

Drainage.—We may now offer a few remarks in regard to drainage, and the plan of pumping the water out of mines. The capacity of the pump varies from ten, twelve, to foarteen inches. The working barrel is placed a little above the turning platform at the bottom of the slope, from which pipes are consected up to the surface, or near enough to

the surface to have the water carried off. Pump-rods are attached to the bucket in the working-barrel, and extend, of course, to the top of the slope, and are connected, by means of a large pump-wheel, with the engine.—
Below the working-barrel, of the pump, and below the turning platform at the foot of the slope, a Sump is driven down, of the same dimensions as the slope, to the depth of some thirty or more feet. This forms a basin, into which the water of the mine collects from all the gangways and turnouts, and when the amount of water in the mine is not very great, it will be a considerable time in filling, during which there need, of course, be no pumping. In rainy seasons the water is sometimes rendered very troublesome in the mines, and it is therefore expedient to have the sump, and all connected with the pumping apparatus, in good order and constant readiness. Pipes are attached below the working-barrel and into the sump, and a connection being thus formed, the water is pumped out. The water is generally pumped out at times when the engine is not hoisting Coal, though it is often neces-sary, however, to hoist and pump at the same time. At some of the Collieries, two engines are used, one for hoisting the Coal, and the other for pumping up the water. Several hogsheads of water are thrown up per minute, with great case and regularity.

Drifts.—In working a Coal mine above water-level, no engine or pumps are required. The drift is commenced on the surface, at the foot of a hill, where the vein crops out, and is driven through the vein in the same manner as described when below water-level. The mine being far enough in, gangways are extended to the right and lelt, and the Coal worked out upon the same plan as in slopes, when it is hauled to the breaker by horses or mules. As the gangway is above water-level, with a slight inclination towards the drift, of course the water will run out, thereby rendering engines, pumps, and pumping apparatus, wholly unnecessary.

Blasting is frequently resorted to, in mining, especially when working large veins. For this purpose the safety-fuse is used almost invariably—the Coal being generally so wet and damp that the ordinary processes of blasting would not answer, even if preferable in an economical view, which they are not. The safety-fuse, too, is perfectly safe, which gives it not the least important advantage. It is a species of fire-cracker, the principal part of the composition being powder, which is surrounded by a hempen fabric, and then covered with another composition, to render it water-proof, of which the greater part is pitch. In blasting Coal, it is difficult to keep the water from filling up the drill-hole,—but by inserting a piece of safety-fuse, and then fastening it tightly, no other preparations are necessary. The match is applied, and following the powder through the fuse, produces the desired result—affording ample time for the miners to withdraw, whenever desirable.

the miners to withdraw, whenever desirable.

We perceive that a patent has recently been taken out in England, by G. Smith, of Cam-

borne, Cornwall, for an improvement in the safety-fuse, by which it is rendered less liable to deteriorate by exposure to dampness and water. This is effected, simply, by the application of a covering of gutta-percka, a species of caoutchouc lately introduced, and which promises to become very valuable in every branch of the mechanic-arts.

Faults.-The Anthracite Coal fields are, throughout, more or less faulty-the Southern region more especially. The seams of Coal having been heaved up, and at other places sunk down, their local positions—if we may so say-are very much, and in various ways, disturbed and contorted. A vein of Coal may be followed for half a mile when, gradually or directly, it is found to run out, and a mass of solid rock occupying its place, and rising up immediately through it. To get on the vain again, this rock must be tunnelled, at an expense varying from fifteen to fifty dollars per yard, and without knowing, positively, how far the tunnel must be extended ere the end can be accomplished. In cases like this, vast fortunes have been and are annually spent. Persons who have engaged in the mining business, and invested large sums in the erection of the necessary buildings, machinery, railways, etc. after getting fairly into operation, and while their success seemed complete, have struck one of these faults, and in a short time were thrown into utter bankruptcy. All their machinery is rendered comparatively idle, their regular business suddenly checked and deranged, and thousands of dollars going out of their pockets. Impressed with the belief, which seems to be invariable in such cases, that a few yards of tunnelling will again place them on the vein, they labor assiduously from day to day, and from week to week, entirely realizing—though not in the literal sense—the lines of Pope:

Hope springs eternal in the human breast; Man never is, but always to be blest!

An instance just now occurs to us, wherein a Coal Operator having a cash capital of from thirty to forty thousand dollars, unexpectedly, in the course of a successful business, struck a rocky fault. He immediately commenced a tunnel through it, with the daily expectation that the task would very soon be completed. Every additional yard of excavation but increased his hopes, and when several hundred yards had been completed, he still daily and hourly expected to break upon the Coal. He labored until his means were finally exhausted. His Colliery establishment was exposed to sale, and as usual, but more especially in view of the above fault, whose extent was still involved in doubt, it sold for scarcely half its real value. The former owner retired, dispirited, exhausted mentally and physically, as well as financially. The new one took hold, rather distrustfully, it is true; but this did not long continue. A few days placed him on one of the richest and most productive veins of Coal in the region, and in a short time thereafter, this gentleman realized the ample fortune lost by his unfortunate predecessor!

There are, as we have said, various kinds of faults; in fact, although they may all have been produced by the same general agency, they vary in their particular character according to the different positions previously occupied by the strata. At some places a stratum of clay, or a combination of earthy substances, is interposed; while at others, no such obstacles appear—but the vein is broken off, and the dismembered portion sunk down—just as we can suppose a piece of glass, laying on several small rollers, and then suddenly broken into irregular fragments: some pieces would be comparatively large; some would no doubt nearly and quita join each other, while others would occupy various relative positions to the mass.

The reader will agree with us that Coal mining, under such circumstances, cannot but be an extremely hazardous and uncertain business; and, indeed, the experience of some of our most enterprising and intelligent Operators affords substantial proofs of the fact. There is no such thing as overcoming or avoiding, entirely, even with the best practical experience, the difficulties and dangers with which it is fraught; and as for Scientific knowledge, (properly so understood)—it is unquestionably of great value in a general way: but cannot always avail in each particular case and locality,—for it is a truism that some of its most accomplished devotees fallen, contemporaneously and side by side, with their more unlettered rivals!

Ventillation, &c.-We now approach perhaps the most important, abstruse, and not the least interesting branch of the subject of Coal mining. In England thousands of dollars have been expended in experiments to arrive at a general system of ventillation; and volume upon volume of practical experience, and theoretrical essay, have been published. But a few years since, the columns of the English Mining journals were filled with these lucubrations; and the astounding number of persons annually destroyed in the mining re-gions, at last excited the attention of the government, and a series of investigations were instituted under its authority. The means proposed were various, and the wealth of a Girard might be squandered, ere any one theory could be rendered practical, per se, in all Coal mining regions. The plan of ventillation must always, in a great measure, be governed by the nature of the Coal itself; by the situation and local position of the strata; by the arrangement of the workings, and various other considerations, which make one mine different from another.

From various data before us, and from the practical knowledge imparted to us in repeated conversations with friends in this region, we shall endeavor to present to the reader an abstract view of the whole subject—leaving for him, if his taste so incline, to add to the general stock, speculations and theories of his own.

The whole subject was recently taken up and reviewed by Prof. Ansted, of England, in the course of a series of Lectures at King's

College, on the Practical application of Geological Science to Mining. Though the pub Though the published reports of these Lectures are of great length, we shall endeavor to present a brief outline of his remarks upon the subject under consideration,—which, though referring particularly to the Coal mines of New Castle, will nevertheless illustrate those of our own

country.

He stated that he should now confine his remarks exclusively to the phenomena connected with those accumulations of gas in Coal mines which caused explosions; and he selected this opportunity, partly because the subject arose naturally out of that of Ven-tillation in Coal mines, being also itself a distinct subject of the greatest possible import-ance, and also because public attention had been called to it, by the frequent explosions and the great loss of life which often accom-panied them. The applicability of means to prevent these direful accidents was a subject of the greatest importance, as regarded the internal economy of the mine; and he should, therefore, have to consider the circumstances under which accidents of this kind might be expected to take place; the danger of explosion in Coal mines arose, no doubt, from issues of gas proceeding from the Coal itself. He had already had occasion to mention more than once the fact that gas was constantly given out by Coal; not only when exposed to heat, or unusual compression, but also under ordinary atmospheric conditions. When any one went into a Coal mine for the first time, they would probably notice a peculiar singing noise, which, though it was not easy to understand, there was no doubt arose from the issue of gas from the Coal. It was not known with certainty, whether this arose from the bursting of certain small vesicles in the Coal; or whether, in consequence of the pressure of the gas on the successive films of which the Ceal was made up, the singing noise resulted from the gas coming out, as it were, in the form of a thin plate. Certain it was, that in Coal mines, there was this unusual noise, and that it was connected in some way or other with the presence of gas. The noise was heard unceasingly in mines of certain kinds of Coal, and in every such case, therefore, measures must be taken with regard to its results. The quantity of gas thus produced, varied, however, very much according to the nature of the Coal and the amount of atmospheric pressure, which appeared to be the two principal causes which regulated the issue of gas from the fractured surface of the Coal. In order to give some idea of the quantity of gas sometimes given out, he might mention, that in the Bensham seam, which was known to be a particularly fiery one, gas was thrown out so rapidly, and in such purity, that, by boring a little hole in the mineral, and applying a light, a jet flame would be produced.— In this case, the gas would be in too pure a condition to be explosive, because, to make it so, a certain adminture of atmospheric sir was necessary. The quantity of gas thus given out naturally "by singing," from four acres of

Coal, was ascertained, some time ago, to amount to ten thousand hogsheads per minute. Seams of Coal, however, varied very much in this respect, and some contained scarcely any gas at all. Besides this constant issue by singing, there was another way in which the gas was met with—namely, in what was called "blowers:" these were puffs of gas, sometimes taking place at long cracks, or at faults, and at others at mere holes; they were some-times very common, and produced as much gas as served to light certain parts of the mine as, for instance, the principal passages; and getting rid of it. In the Killingworth Mine there was a "blower," which had been burning for some years. In other instances, a fault was touched, which gave out gas, and when the same fault had again been pierced, it had produced no gas. Sometimes, as in the case of the Great Jarrow explosion, when the works approached near a fault, the pressure of the gas pent up in it had forced forward the Coal, which divided it from the mine, and involved all the workmen in certain destruction. These were all very difficult circumstances to deal with, as it was impossible to anticipate Besides these blowers, which occurred in the natural state of the Coal, there were constantly dangerous accumulations in portions of the mines which had been worked out, or partially worked, and in which the roof had partly fallen down. It was impossible to prevent these accumulations where the roof had fallen, and in old workings; and they were always, more or less, dangerous, because the gas was here inevitably mixed with atmospheric air, and generally in such proportions as to be highly explosive: they were also not uncommon in faulted districts-where the beds were in a broken state, the result of contraction, or pressure, at some remote period." In all these cases, accumulations of gas took place, and the gas was liable to burst forth on the smallest atmospheric change. If, for instance, a fall in the barometer indicated that the pressure of the atmosphere had become less, its existence would not be so great, and a quantity of compressed gas would be forced out by expansion. Gas being thus present in the mines, either in the body of the Coal it-self, or in accumulated quantities, the danger arose from the fact, that it was impossible to conduct mining operations underground without lights.

The most convenient way of lighting, according to the miners, was by candles; and this, partly, because they were easy to carry about, and partly from long custom. There was a great prejudice in favor of candles, which they always would use where-ever it was possible. Now, it must be re-membered, that generally part of the mine only was hable to the ordinary issues of gas, while other parts were subject to what might be called extraordinary issues, such as are from unexpected accumulations: In the formercase, the use of open-lights would be perfectly safe; provided the general ventillation were tolerably good. Thus, it might be com-

sidered that, under ordinary circumstances such parts of the mine would be safe, and the other parts dangerous: and it was generally found, that if the workmen were allowed to use candles to the safe parts, they did not object to use lamps in the dangerous portions. But the condition of any district was always liable to be disturbed by new blowers commencing, or by the influx of gas from the dangerous districts; and, therefore, a vigilant superintendence of the state of the mine was in-dispensable. It was also necessary, if anything was to be done in the dangerous parts of the mine, that light should be obtained by safer means than by candles, because the smallest contact of flame was sufficient to explode certain mixtures of carburetted hydrogen gas and the atmospheric air. The explosive admixture was a mechanical one, and it was necessary to understand precisely of what proportions it was formed. If the gas came out pure, and a candle was thrust into it, the flame would be extinguished, because there was nothing to support combustion; the gas itself would take fire. If there were three parts of atmospheric air and one of gas, it began to be faintly explosive; and, when once explosive, it would set fire to other gas, which was too pure to explode. When the gas was as 1 to 6, it became very explosive, and continued so until the proportions were 1 to 10, when it became less explosive. The danger, however, was not destroyed until the mixture became weaker than 1 part of gas to 14 of air; after that it merely en-larged the flame of any light which might be brought into it, and turned it blue. ner was thus enabled, by the lengthening of the flame of his light, and its appearance, to tell whether he was in a dangerous part of the mine, and the amount of gas that might be present in the atmosphere. If the flame reached to a certain height, the practical miner could tell at once how nearly the atmosphere approached an explosive combination, and with some other similar points affecting his safety, and that of his fellow-workmen, long habit had made him familiar.

There were several considerations of importance connected with these explosive admixtures of gas and air; as, for instance, the effect produced by the breathing of a number of men, which very much lessened the dan-ger, by altering the proportions of nitrogen and oxygen in the atmosphere; and thus one portion of the mine would be less explosive than another, though both might contain the same proportion of carburetted hydrogen.

Every part of the mine which was capable of being worked, should, in all cases, be visited with guarded lights, before other lights were allowed to be taken; and the state of the mine should always be well ascertained before open lights were used. There was also a certain amount of danger in going into some portions of a fiery mine; and, until within the last thirty years, the only means of obtaining any degree of light in such cases, was by the use of an apparatus called the steel-mill. This was a very ingenious contri-

vance, by which a strain of sparks was produced by pressing a flint against a revolving plate of steel; and this afforded sufficient light to move about, but not enough to work by. It was, moreover, a dangerous contrivancefor, every now and then, there could be no doubt, a flame was produced, sufficient to explode gas under certain circumstances, and particularly if olefiant gas should be present. which, however, did not appear often to be the case in English mines.

About thirty years ago, a great number of serious accidents occurred in the mines of the north of England, following each other in alarmingly rapid succession. Very many lives alarmingly rapid succession. were lost, and the public attention was much directed to the question whether or not some improvement could not be discovered in the way of lighting the mines. Sir Humphrey Davy, then in the zenith of his reputation, was applied to by Mr. Buddle, a well-known colliery viewer of that day, and invited to turn his attention to the subject. Humboldt had before attempted to overcome this difficulty; but his contrivance was only partially useful for visiting dangerous mines, as it would not burn longer than half an hour, the flame being supported by a reservoir of atmospheric air within the lamp. Dr. Clanny improved this lamp, admitting the external air freely in cases when it was used in an explosive state; but this lamp was practically useless, as the explosions which took place inside it soon put out the light.

The learned lecturer then proceeded to explain Sir H. Davy's invention. Its principle was founded upon the discovery, that the explosion of the mixture in question did not pass through small tubes; and after numerous experiments, Sir Humphrey Davy found, that the length of the tubes was of no consequence, but that wire gauze, the apertures being of the proper dimensions, answered the same purpose. By this means, all necessity for an exterior glass was got rid of, and the new lamp might be carried into the most explasive admixtures without danger. Such was the Davy lamp; and he believed that, as it was the first, it was also by far the best, real safety lamp that had been invented. It was, perhaps, not perfect, judging only by experiment, but it was decidedly the best for all practical purposes, as it was more manageable than any other; and not se easily put out of order. gauze usually employed was made of iron wire, and it had seven hundred and eightyfour holes to the square inch. Sir Davy, having perfected his lamp, went down to the Newcastle Coal field, and, with Mr. Buddle, traversed with impunity some of the must dangerous parts of the Bensham seam, at that time the most fiery known. The Davy lamp had been used with great success ever since; and, though some accidents had occurred under the success of the success o der circumstances in which no lights, but those of Davy lamps were present—it was as safe as any such instrument could be. The auperiority of this lamp over more recent in-ventions consisted in its producing a greater quantity of light, and being more portable

with at least as much safety. Mr. George Stephenson, the engineer, had also invented a lamp, which was called a "Geordie," after the name of the inventor. It was, however, merely a modification of the Davy lamp, by the addition of a glass tube, which answered the double purpose of increasing the light and keeping the flame steady, by shielding it from currents of air. This, perhaps, gave it additional safety while perfect, as it was pos-sible to drive an explosion of common atreet gas through the gauze of a Davy lamp. The lass, however, was liable to be broken, and glass, however, was nation to be blocken, and then the instrument became a large and somewhat dangerous "Davy." In some of the Belgian mines a lamp, called "the Muesseler lamp," was in use, but it was a very compliants, "Was and for that nurnose was inferior cated affair, and for that purpose was inferior to Sir H. Davy's invention. No doubt, it was safer theoretically, as by it the flame was extinguished the moment the lamp was taken into a dangerous atmosphere; but this very much lessened its utility, the main point being that the lamp shall give light with safety un-der such circumstances. The Davy lamp, der such circumstances. with care, might be taken anywhere. He (the lecturer) had himself been in every description of atmosphere, and he had often seen explosions take place inside the Davy lamp by which he was lighted. This, indeed, was a circumstance which happened constantly to every viewer, over-man, and Davy-man in the Newcastle coal field. The true danger of the Davy lamp was one that would apply equally to any other, and it arose from the fact, that its constant use made the workmen careless. and the more it was used, therefore, the greater chance was there of accidents. The greater chance was there of accidents. learned lecturer here exhibited a printed placard, setting forth the regulations which were adopted in several collieries, in respect to Davy lamps, the most important being that which enacted that no man should be allowed to use his Davy lamp until it had been examined carefully by the Davy-man, and pro-nounced perfectly clean and in good order, nor until it was securely locked, so that the workman could not take it to pieces, and expose the flame in an unguarded manner.
With regard to actual accidents, the profes

sor remarked that he should not say much beyond placing before them the circumstances of a few of the most disastrous, which would serve to explain the nature of the results of the explosions of which he had explained the cause. The most important, then, that he should mention, occurred in the Haswell colliery, on the 28th September, 1844, when ninety-five lives were lost; and the next was that at the Jarrow Pit, on the 3d of Aug. 1845, when forty-one persons were killed. In the same year, thirty-six lives were lost at Killingworth; and in 1846, nineteen at Oldbury and thirty-six at Risca. By these accidents occurring within a period of little more than two years, upwards of two hundred persous lost their lives; and he had grouped these accidents together, in order to give an idea of the extent to which they occurred. There were, then, two hundred lives lost in two years, in working Coal mines, from accidents which, in the opinions of the juries who held inquests on the unfortunate sufferers, could not possibly have been prevented-the mines being in every case, except, perhaps, in that of the least considerable, in good condi-

tion at the time.

In the first of these accidents, that of the Haswell Colliery, there were under ground, at the time of the accident, nizety-nine persons, of whom four only escaped. It was an important consideration (which also applied to other accidents), whether it was absolutely unavoidable, the catastrophe having occurred, that all these people should be killed.—
It might be that the whole matter was beyond human control, as in the case of a ship wreck. If we crossed the sea, the vessel, being made by human hands, was liable to accidents which might happen from stress of weather, which no one could help; or by carelessness, in respect of which some one would be culpable. If everything were done to render the vessel seaworthy, there would be no blame attaching in respect to its condition, though it should be wrecked in a storm; but, if the vessel were sent to sea in an unsafe condition, there was blame. Just so was it with regard to mines: if the mine were in as good a condition as science, and the adoption of the best plans could make it, no blame might be attributable to any one for an unforeseen accident. But, if it were possible so to manage the mine as to lessen the chance of accident (he did not believe accidents could be entirely prevented); and if that were not done, then there would be blame. The sea must be crossed, despite of shipwrecks; and Coal must be had, let it cost what it might; the point was to get it under the most favorable circumstances. In the case of each accident therefore, it was important to consider whether everything was done by way of prevention and palliation which could be done. In the case before them, that of the Haswell Colliery, the accident occurred in a part of the mine where the pillars had been removed and the workmen were taking away the props. This was always a delicate operation, because, the props being removed, the roof fell, and the accumulations of gas were disturbed, and often shifted. Before proceeding further with the particulars of this melancholy accident, it would be necessary to mention the effects of an explosion upon the atmosphere. buretted hydrogen when exploded became decomposed; the oxygen in the atmosphere mixed with the hydrogen and formed water, and nothing was left to breathe but pure carbonic acid gas. This was a most poisonous gas, and produced instant death by choking. At least, insensibility was instantaneous; and, although in such cases, when measures were taken almost immediately, recovery had taken place, death was generally inevitable. The result of an explosion, therefore, was to turn the atmosphere into pure carbonic acid gas; and every man in that district of the mine, in which the accident occurred, was doomed to certain death. The Haswell Mine was divided into three great divisions, or three pauxel workings; the explosion took place in the middle division, and thirty or forty persons, far removed from the scene of the accident, in another pannel, were poisoned by the after-damp. This could not have occurred had the ventiliation of each pannel been as distinct as it might have been; and—he was, therefore, bound to say-as it ought to have been. The explosion at the Jarrow Pit, in Aug. 1845, by which forty-one persons were killed, was another instance where such a large destruction of human life was occasioned by the absence of two shafts; for the means of ventillation at the only one being destroyed by the accident, there was no means of restoring it previously to the mischief being done. Another interto the mischief being done. esting case occurred in the Killingworth colliery in 1845, which was the result of a fault. On one side of the district there was a long stone drift, at right angles to the main rolleyway of the pannel, in which the men were working; a fault was reached, and this gallery not prosecuted beyond it. The chief object was to drive through a mass of coal in order to get the ventillation completed, and for this purpose they were at work day and night. The fault was pricked in the course of the work in a succession of places, up to two or three days before the accident, which took place on a Thursday, without any unusual presence of gas being observed. On the Wednesday the fault was once more pricked, and no gas came out. On Thursday, one set of men had per-formed their allotted portion of work, and about two hours afterwards another gang of workmen descended; and it is singular that, though the gallery was considered so far dangerous that the men were working with Davy lamps, a boy was allowed to precede them with an open candle—a piece of carelessness most inexcusable, and for which they paid with their lives; before they reached the spot where the workings were, an explosion took place, and every person in the mine perished. Some idea of the force of these explosions might be deduced from the fact that on this occasion, a stopping consisting of thirty-six feet of rough materials, with an inch and a half brick wall on either side, was blown to pieces. In another instance, at the Jarrow mine, an accident happened, and on examining the mine afterwards, a cavity was found, in which there had been probably about two hundred cubic feet of gas in a very condensed state, and the side of the cavity being reduced by the working, it had given way, and let out the whole, which exploded with irresistible force. This was a kind of accident to which the miners were constantly hable, and which no vigilance could foresee or prevent. Accidents, and all their particulars, ought always to be recorded, and they could not be discussed too much. It was quite clear that, at though it was impossible to avoid accidents, the risk was greatly diminished by good and effective systems of ventillation, and by unceasing care in the use of lights.

In continuation of this subject, we make the

following extracts, principally from the recent valuable work of Mr. Taylor:*

The workmen of the Creuses mine

descended one morning, the one following the other, in rotation, into a shaft below, in which carbonic acid had accumulated during the night. Arrived at the level of the "bain," at a few, yards from the bottom of the pit, the first fell, struck with asphyxia, without having time to utter a cry; the second followed immediately; the third saw his comrades prostrated on the ground, almost within reach of his arm; he stooped to seize them, and fell himself; another quickly shared the same fate, in his desire to save the others, and the catastrophe would not have been arrested had not the fifth been an experienced master miner, who obliged those who followed him to resecond.

The gazes which result from the subterraneous decomposition of the coal, have, besides carbonic acid, carbonic oxide, azote, sulphurous acid, and the carburets of hydrogen, which have a special odour. Before the coal takes fire, the interior air is already heavy and heated by the gaseous disengagements whi eh are the precursers of ignition. As quickly no these symptoms are remarked, the coals ready mined should be raised, and we should isolate from the surrounding air the region or the crevices which enclose the fire; employing at this work the laborers whose organisation is known to be the best adapted to sup

port the deleterious influence of these gazes.

Azote, or nitrogen gas, is much less to be dreaded than the carbonic scid; because its action upon the animal economy is less energetic: besides, its production can only take place by the absorption of oxygen from the air, and it does not naturally exist in the fis-sures or cavities of the rocks. It has, then, no spontaneous disengagement; but if we pene-trate into the works which have been a long time abandoned, and where there has he combustion, the azote will occupy, in consequence of its lightness, the higher parts of the excavations, while the carbonic acid will cocupy the lower parts; the respirable air form-ing the intermediate zone. Azote is found isolated in certain mines, where there exist pyrites in a state of decomposition; the sulphurets changing into sulphates, shooth the oxygen and isolate the azote; the sulphurat of iron is, in this respect, the most active agent.

Azote manifests itself by the red coles of the

flame of the lamps, which ends by extinction; it renders respiration difficult, produces a hosviness of the head, and a hissing or singing in the cars, which seems to indicate a mode of action different from that of carbonic acid.

The ordinary lamp of the miner is extinguished when the air contains no more than 15. per cont. of exygen: [the atmospheric air is composed of 21-per cent. of exygen and 79 per cent. of exote.] it is also at this propertion of 85 per cent. of azote that asphyxia or suffocation is caused.

[&]quot;Statistics of Coul, &p.—apwards of 1200 pp.; el-agarsty illustrated with integrand enguivings—price 45. Philadelphia: J.W. Meare.

Proto-carbonated hydrogen, or inflammable air, designated by the French and Belgian miners under the name of grison, is of all the gases the most dangerous; that which occasions the greatest number of accidents, not by asphyxia, which it can nevertheless produce when it is not mixed with at least twice its volume of air, but for its property of igniting when in contact with lighted flames, and of exploding when it is mixed, in certain proportions, with atmospheric air.

The grisou is more abundant in the fat and friable coals, than in the dry and meagre coals; it particularly disengages itself in the crushed places, éboulements, in the recent stalls whose surfaces are laid bare, and that so vigorously as often to decripitate small scales of coal and produce a slight rustling noise. The fissures or fractures of the coal, and even the clefts of the roof or the floor, give sometimes outlets to soufflards or jets of gas. The action of this gas upon the flame of the lamps is the most certain guide in ascertaining its presence and proportion. The flame dilates, elongates, and takes a bluish tint, which can readily be distinguished by placing the hand between the eye and the flame, so that only the top of it can be seen. As soon as the proportion is equal to a twelfth part of the ambient air, the mixture is explosive, and if a lamp be carried, it will produce a detonation proportionate to the volume of the mixture. When, therefore, a miner perceives at the top of the flame of his lamp the bluish nimbus which decides the presence of the fire-damp, he ought to retire, either holding his light very low or even to extinguish it.

The chemical effects of an explosion are, the direct production of the vapours of water and arbonic acid and the separation of azote. The physical effects are, a violent dilatation of gas and of the surrounding air, followed by a reaction through contraction. The workmen who are exposed to this explosive atmosphere are burned, and the fire is even capable of communicating to the wood work or to the coal; the wind produced by the expansion is so great that, even at considerable distances from the site of explosion, the laborers are thrown down, or projected against the sides of the excavations; the walls, the timbering, are shaken and broken; and crushing, or falling down, is produced. These destructive effects can be propagated even at the mouths of the pits, from which are projected fragments of wood and rocks, accompanied by a thick tempest of coal in the form of dust.

The evil rests not there; considerable quantities of carbonic acid and azote, produced by the combustion of the gas, become stationary in the works, and cause those who have escaped the immediate action of the explosion to perish by suffocation. The ventillating currents, suddenly arrested by this perturbation, are now much more difficult to re-establish, because the doors which served to regulate them are partly destroyed; the fires are extinguished, and often, even the machines fixed at the mouths of the shafts, to regulate the currents, are damaged and displaced, to such an

extent that it becomes impossible to convey any help to the bottem of the works.

—A great number of accidents have taken place on Monday mornings, when the miners descend after having quitted the mine on Saturday. M. Bischof reports that having visited a gallery which had been abandoned for several days, he found the gases liquated to such an extent that they were inflammable in every part of the area; defonating in the middle portion, while the almost pure atmospheric air filled the lower part.

It is very dangerous to allow these liquations to accumulate; it is necessary that the current of air be sufficiently active to produce immediately the diffusion of the gas in the air and its withdrawal out of the mine before the mixture has become explosive. But, notwithstanding the precautions of ventillationaérage-many mines would be completely unworkable if there had not been found the special means of guarding them from the fire-damp—grisou. The coal beds most dangerous—as has been previously stated—are those which are the most valuable for their good qualities; science and industry have therefore been called on to seek the means of combating the effects of the grisou, and we proceed to expose those which have been successively employed:

Means to Check Fire-Damp .- The first idea which presented itself to the explorers was to disembarrass themselves of the gas by allowing the liquation to establish itself and by setting it on fire, so as to burn it, in the absence of the miners. For this purpose a workman, clothed in vestments of moistened leather, his visage protected by a mask with spectacles of glass, advanced, crawling on his belly, in the galleries where the fire-damp was known to exist, and holding forward a long pole, at the end of which was a lighted torch; he sounded thus the irregularities of the roof, the front of the excavations, and set fire to the grisous. This method, which has been employed, within twenty years, in the basin of the Loire, and even occasionally at the present day, in some of the English fiery collieries, has numerous inconveniences. The workmen, whom they called pénitents, were exposed to dangers to such an extent, that a great number perished. When the gas, instead of being simply inflammable, was detonating, the solidity of the mine was constantly compromised by the explosions; the fire attacked the coal and the timbers; the gases, which resulted from the combustion, became stationery in the works, and menaced the workmen with asphyxia; at length it became necessary, in certain mines, to repeat, even three or four times a day, this perilous operation, and yet it in no respect obviated the rapid disengagements which caused these numerous accidents. This method was equally in use in the English collieries; only the penitent or fireman, instead of carrying the fire himself, caused it to be moved by means of a slider placed over a line of poles connected together, and directed by a system of pullies and cords. The danger was thus diminished for the fireman, who retired into a

niche formed in a neighboring gallery; but in the mean time many were still overtaken, and, besides, all the other inconveniences

The method called the eternal lamps was evidently better. It consisted in placing towards the top of the excavation, and in all the points where the fire damp collected, lamps constantly lighted, which burned the grisou as fast as it was produced; the danger was diminished in a considerable degree, because there could not be formed such large accumulations of inflammable or detonating gas. This mode of proceeding was, however, re-nounced in a great number of mines, on account of the production of carbonic acid and of azote; a production the more sensitive, since, to facilitate the liquation of the gases, the air

ought not to be very strongly agitated.

At. length it was devised to profit by the property possessed by platina in sponge to facilitate the combustion of the hydrogen with which it brought in contact, and pellets. composed of one part of platina and two parts of clay, were made, and were placed near the points at which the grisou or fire-damp concentrated. But all these efforts, based upon the incited combustion of the inflammable gas, proved to be only dangerous and incomplete palliatives, which substitued for a great peril a series of other dangers, less imminent, doubtless, but equally distressing.

From that time all the well disposed continned to search for processes based upon another principle. Two only could conduct to a good result: 1. The withdrawal of the gases out of the mine; 2. a mode of lighting different from that which was in use, and which would suffice for the purposes of the miner without com-

promising his safety.

The principle of withdrawing--entrainement-of the gases by a rapid ventillation is, without contradiction, that which was the most natural to conceive; because it was already applied to all the other deleterious gases. Dr. Vehrle proposed at first to effect the decanting of the gases by making the excavations (stalls?) communicate by ascending passages with a gallery embracing all the works, and uniting with an ascending shaft. But this project, otherwise impracticable, offered a remedy for only a part of these accidents; the execution alone of the necessary works could not have been made without the greatest danger, if these works had been undertaken in the coal; while, in the rocks of the roof, the expenses would have rendered them impracticable.-But a good ventillation alone could not suffice to place the miners in security; it was an excellent auxiliary means, but it always left unsolved this important problem: the prevention of the inflammation of the gases which disen-gage themselves from the surfaces of the stalls.

The lightning alone could conduct to the solution of this problem, and numerous attempts had been made, under this head, when Davy discoved the safety-lamp. Before him, they had operated with a small number of lights, placed in the lowest positions, and at a distance from the stalls; the workmen kept these lamps in view, and when the blue nimbus, the indication of hydrogen, began to show itself, they extinguished them or withdrew, covering them with their hats. They made use of, also, in the most infected mines, various phosphorescent matters, and particularly a mixture of flour and lime formed from oyster shells, called Canton phosphorous, although the uncertain and ephemeral light which these materials produced, was but a very feeble At length it was observed that the proto-carbonated hydrogen was somewhat difficult of ignition, and that the red heat was insufficient to accomplish it; thus it was practicable to carry a red coal, or a red hot iron into the fire-damp without inflaming it, the white heat alone having the necessary temperature. They profited by this discovery by lighting the stalls by means of the steel-mill, previously described by Prof. Ansted, and such was the state of affairs when Sir H. Dav took up the subject, and commenced his brilliant experiments.

-From the foregoing the reader will have gleaned a true understanding of the nature of those accumulations in mines, which render ventilation a subject of such vast importance. The means adopted and suggested to prevent the explosion of these gases, are innumerable; and notwithstanding that the discovery of the safety-lamp, by which the presence of noxious gases can always be determined, has been a source of great moment and security, yet its use has not been effective in assisting to expel them, or of suggesting any certain method of ventiliation, beyond the actual discovery of what ought to be expelled. It exhibits, infallibly, the actual presence of gases;—but it has not led to the means by which they can be dispersed and driven out: so that the very dangers which attended mining previous to its introduction, attend them now, and always will attend them until some means can be devised to drive them out of the mines as fast as they accumulate. A principle of ventillation, for example, that will answer the purpose during the summer season, would not answer at all, (in many cases, at least in our region) during the winter—notwithstanding the fact that a difference of but a few degrees occurs in the temperature of the mines, during the year. This, of course, arises from external causes, which must always govern the atmosphere of the mine. Thus, when the external atmosphere is varied, and suddenly changed by winda, lightning, frost, snow and long continued rains, the gases in the mine will be found to accumulate, to disperse, or to be borne out of the mine-as the case may be. They are always regulated by the density of atmospheric air, and rendered explosive just in proportion as they unite with it;-here the safety-lamp is useful, because however explosive the combination may be, it will conduct the viewer safely through it;—but, then, here is where ventil-lation fails, for the admixture cannot be disunited, or expelled, except in its own time and

The most general plan of ventillation adopt-

ed in this region is, simply, this: The atmoepheric air is admitted at or near the mouth of the slope. After traversing the mine through every avenue, the current is drawn through an escape-hole, over which a furnace is erected.
and a regular and intense heat kept up. The draft thus afforded (there being no other escape) is generally sary strong, and as the current of air is borne along, it bears with it all the noxious gases in the mine. Whenever these gases accumulate in workings where the current of atmospheric air does not penetrate sufficiently, they are dispersed by the miners. by means of canvasses or banners; and when there is not sufficient air, boys are stationed with revolving fans, by which the air is kept comparatively clean. These, with like devices, varied as circumstances may suggest, are the means resorted to in the anthracite regions of this State. There is a viewer for each mine, who enters with a Davy-lamp, and always reports the actual condition of the mine before the miners go to work.

Desultory and concluding Remarks.—The mining population of our Coal regions is almost exclusively composed of foreigners principally from England and Wales, with a few Irish and Scotchmen. The former have a decided preference for working in small veins, and they can use the pick in the narrowest space, right and left, and in all positions. They cannot, of course, swing it over their shoulders, or give it that swing which is deemed so necessary for effective work-but, holding it in front, and making short, quick strokes, the pick is as effective in their hands, in a space of three or four feet, (or even less) as it is in less circumscribed limits. This predilection of the English miners is principally attributable to the fact, that the coal veins of the Enghish mining regions are usually thin, and having entered them at a very early age, they have thus formed a preference for thin veins, and a prejudice against large ones, where it is necessary to blast and use ladders, &c. Every miner carries his lamp on his cap, to which it is hooked. While pursuing their labors in the mines, they soon become thoroughly covered over with the black coal dust, and their clothes. which are of the coarsest fabrics, rudely patched together, are saturated with water. mines are damp, and the floor usually full of coal-mud and water—hence the miners and laborers wear heavy course shoes, with the soles covered with tacks. Although extremely healthy as a class, the miners generally are pale and somewhat delicate in the face, and their eyes somewhat detrains in the land, and their eyes elightly protrade, and may be said to be prom-shent. Their features are not regular, and they cannot justly lay claim to manly beauty. They know finds but what pertains to their subterraneous employments; — making that the subject of their discresions, their jest and their suppect or their macussius, their jest and their pastimes, they have little care for things concerning the upper crist. They are, to a certain degree superstitious: even the most intelligent of them yield to it. For example, it is considered an evil often when a stranger, in entering the mine, begins to whistle. It produces a certain effect among them, and destroys, in a measure, thei good spirits. A mi-

ner never whistles—and when, hocasionally, they hum a tune, it is more of a soft and plaintive character than the popular songs of the day. The employment seems well calculated to indulge thought;—calm, complacent ideas. There is no wildness—no ambition—they seek only contentment, and are satisfied with their lot.

Visiters to the mines are cordially received, and every attention is shown them by the workmen. As a stranger would derive little satisfaction from his visit, unless he placed himself in the care of some one thoroughly acquainted with the mine, the workmen observe the old established custom of requesting every visiter to pay his footing-that is, the present of twenty-five or fifty cents (or a dollar or five dollars, if you like) to the person or persons who "show him the elephant." This request is generally made when the parties are the greatest distance from the slope, and when the visiters would naturally apprehend some difficulty in finding his way out! But, inasmuch as the conductor is withdrawn from his labor, and the visiter, without him, would be liable to get in the way of the workmen, and perhaps meet with some accident—besides his disability to understand the operations-the payment of the "footing" should never be neglected nor begrudged. The ladies, of course, pass free-the only charge being a smile or so.

The moral condition of the mining population of the Authracite regions of this State, is vastly superior to that of the same class in any other country. They reside in rude cottages, it is true: and do not enjoy the same elegances of life which are obtained in many other industrial pursuits;—but they have abundance to eat, good clothes to wear, and money in their pockets. A more generous-hearted people—more devoted to their friends, and faithful in their domestic attachments, does not live. Upon their arrival here, where labor is usually plenty, the first fruits of their industry are carefully hoarded, and when a sufficient sum is gathered together, it is sent home to cheer and bless some kindly-remembered relative or friend. Thousands of dollars are thus annually sent off by the humble laborers of the Coal regions; and the fact illustrates the golden trait of our nature, which must in all time to come hide a catalogue of sins.

Strange are the incidents which sometimes occur in virtue of this noble impulse. Last year, we remember well, an honest and industriens miner, after several months' unceasing toil, had laid by a sufficient sum to pay the passage of his wife and several children from England to this country, besides a handsome sum for necessary expenses. The passage had been secured, and the money forwarded. The wife and her children in due time arrived—but, alas! where was the kind husband and father? In his grave. A day or two previously to their arrival, he had fallen at his work in the mine—a victim to an explosion of firedamp!

The career of the miner, repairing daily to his subterranean workshop is, indeed, full of unfortunate streaks; dismal as solitude; black as the earth he delves. The scarred chieftein knows less danger, and much more glory. But although the lot of the miner is little to

But although the lot of the miner is little to be envied, it must be said, to the eternal credit of our country and its institutious, that it is here stripped of the odious features which characterize it in other countries. To exhibit the contrast between the mining districts of England and our own country, we have prepared the following items from the report of the investigating commissioners, appointed by the British Parliament, a few years ago. The degrading practice of employing children and females in mines, does not prevail here. Boys are employed to drive the horses, and to assort the coal as it descends into the shutes from the breaker—but these duties are light and suited to their capacity. Females, old or young, have never been engaged in the mines of this country;—(thank heavon, our countrymen appreciate them too highly not to offer them better engagements and more pleasant and apprepriate employment!)

and appropriate employment!)
In 1841, the commissioners proceeded to investigate the condition of the laborers, male and female, in the mines of Great Britain. Of the number of children employed in the iron, coal, tin, and lead mines, it is difficult to ascertain, or to form any nice estimatebut the number must be very large. In many pits they are set to work at a very early age, some at six years, and at all ages beyond that. According to the evidence of Dr. Mitchell, the proportion of men to boys in the iron-stone pits of Staffordshire is one hundred to seventy; in the coal pits it is one hundred to 99. Many of these pits, especially the iron-stone, are low, and horses cannot be employed. which is the principal reason of there being so large a proportion of boys in comparison with the men, to push the skips or carriages to the foot

of the shaft.

In some of the mines the improper and reprehensible practice of employing female children to perform precisely the same kind of labor as that performed by the boys, prevails. The practice of employing females in coal pits, says one of the commissioners, is flagrantly disgraceful to a christian, as well as a civilized country. "On descending Messrs. Hopewood's pit at Barnsley, I found assembled round the fire a group of men, boys and girls, some of whom were of the age of puberty, the girls as well as the boys, stark naked down to their wastes; their hair bound up with a light cap, and trowsers supported by their breasts, and some little difficulty occasionally arose in pointing out to me which were girls and which were boys, and which

cansed a good deal of laughing and joking.

In the Flockton and Thornhill pits the system is even more indecent; for though the girls are clothed, at least three-fourths of the men for whom they hurry work are stark naked, or with a flannel waistcoat only, and in this state they assist one another to fill the corves 18 or 20 times a day. I have seen this done myself, not once or twice, but frequently. "Girls," continues the report, "from five to eighteen, perform all the work of boys.—

There is no distinction whatever in their coming up the shafts, or in going down—in the mode of hurrying or thrusting—in the weights or corves, or in the distances they are hurried—in wages or dues. They are to be found slike vulgar in manner and obscene in language; but who can feel surprized at their debased condition, when they are known to be constantly associated, and associated only with men and boys, living and laboring in a state of disgnsting nakedness and brutality; while they have themselves no other garment than a ragged shirt, or, in the absence of that, a pair of broken trowsers, to cover their persons?"

In the mining districts of Scotland, the employment of females in this description of labor, is generally considered to be so degrading, that "other classes of operatives refuse intermarriage with the daughters of colliers who have wrought in the pits."

The report of the collieries, etc. in the East of Scotland, by Mr. Franks, contains correct and authentic information as to the condition of the laborers employed in them. The descriptions are illustrated by drawings, exhibiting the operations and position of the children in the mines. The following extract from his report will enable our readers to form a conception of the places and kind of work, devolving upon the children and young persons pursuing their several occupations:

"Many of the mines in the East of Scotland are conducted in the most primitive manner; the one horse gin to draw up the bucket, no separation in the shaft, the ventilation carried on in many places by means of old shafts left open, etc. The negligence of underground working corresponds with the above, the roads being carelessly attended to, and the workings very irregularly carried on, so that the oppression of the labor is as much increased by the want of good superintendence as by the irregularity of their work people themselves. The roads are, most commonly, wet, but in some places so much so as to come up to the ancle; and where the roofs are soft, the dripping and slushy state of the entire chamber is such that none can be said to work in it in a dry condition, and the coarse apparel the labor requires absorbs so much of the drainage of the water as to keep the workmen as thoroughly saturated as if they were working continually in water.

"The workings in the narrow seams are sometimes 100 to 200 yards from the main roads, so that the females have to crawl backwards and forwards with their small carts, in seems in many cases not exceeding 20 to 28 inches in height."

In fact, says a very intelligent witness, (Mr. Wra. Hunter, the mining foreman of Ormia, ten Colliery) upon the occasion of being authorised to issue an order to exclude women, and children from the colliery,—"in fact, we men always did the lifting, or heavy part of the work, and neither they nor the children were treated like human beings, nor are they where they are employed. Females submit to work in places where no man or even lad.

could be got to labor in; they work on bad roads, up to their knees in water, in a posture nearly double. They have swelled haunches and aneles, and are prematurely brought to the grave, or what is worse, a lingering existence." "In surveying the workings of an extensive colliery under ground," says Robert Bold, the eminent miner, "a married woman came forward, groaning under an excessive weight of coals, trembling in every nerve, and almost unable to keep her knees from sinking from under her. On coming up, she said, in a plaintive and melancholy voice, 'Oh, sir, this is sere, sore, sore work! I wish to God that the first woman who tried to bear coals had broken her back, and never would have tried it again.'"

Now, when the nature of this horrible labor is taken into consideration, the extreme severity, its regular duration of from 12 to 14 hours daily, and sometimes much longer; the damp, heated and deleterious atmosphere, in which the work is carried on; the tender age and sex of the workers; when it is considered that such labor is performed, not in isolated instauces, selected to excite compassion, but that it may be regarded as the type of the every day existence of hundreds of our fellow creatures—a picture is presented of deadly physical oppression and systematic slavery, of which those unsecquainted with such facts would not credit as existing in the British dominions.

We may add, as worthy of remark, that to this labor, which is at once so repulsive and severe, the girls are invariably sent at an earlier age than boys—from a notion very generally entertained amongst parents, that they are more acute and obedient.

VALLEY OF THE SCHUYLKILL.

The coal regions of Penusylvania are admirably situated for commanding ready access to market. The north branch of the Susquehanna river rins through the Northern region, and uniting with the west branch near Sunbury, winds along the western terminations of the middle and southern regions; the Lehigh starts out in the northern termination, and the Schuylkill river issues from the middle of the latter region. These streams are connected by amalier ones, issuing from all directions; and while they do not always afford facilities for navigation, the valleys through which they are borne, almost invariably allow the construction of railways, and thus become auxiliary causeways to the three great outlets mentioned.

The valley of the Susquehanna, draining about thirteen millions of acres of land, will remain the principal thoroughfare for the agricultural products of the interior of Pennsylvania, and this trade must annually increase with the prosperity of the manufacturing interests of the eastern portion of the State, as well as that portion of Maryland approaching the Susquehanna near Tide Water. Of late years, the number of furnaces and rolling mills along the Susquehanna has greatly increased,—but in cotton manufactures no pro-

gress whatever has been made. The lumber trade still remains brisk, but as this diminishes the supplies of grain will increase, with the increase of manufactures towards the seaboard.

The Lehigh river, traversing a district of country rich in its agricultural and mineral products, is destined to become anxiliary, especially to the iron deposits, and the growing manufacturing interests of New Jersey.

But the Schuylkill, being the centre, must ever remain the principal avenue of the coal trade, and ultimately become the great emporium of manufactures-including, more particularly, those of iron and cotton. The soil drained by this stream is very fertile as it approaches Philadelphia, and its annual product s capable of supporting a vast population.-The numerous tributary streams afford abundant water-power for every desirable purpose, and especially for flouring mills, saw mills, etc. The locations for towns are throughout admirable and innumerable; and the local advantages for comfortable and attractive residences are not excelled elsewhere in any respect-There are large deposites of limestone and iron-ore, at various places; and copper and lead are found in no inconsiderable quantities;-recent explorations confirming the belief that they will, at no distant day, be rendered objects of special importance to the enterprising capitalist.

A railway connecting the Susquehanna with the Schuylkill has loug been projected, and there is some ground to belive will soon be carried out. When this object shall have been effected, a new impulse will be given to the trade of the Schuylkill, and especially to the business of the southern and middle coal regions. The great iron resources through, or near which the proposed route will pass, must ultimately render this county the principal theatre of the iron manufactures, as it now is of the coal trade of Pennsylvania; and while thus opening the way for other manufactures along the valley, will contribute vastly to the prosperity of the whole farming and active business community along this great outlet to the sea.

—We were led into the foregoing remarks as prefatory to a notice of the Schuylkill Navigation and the Reading railroad, with which we shall accordingly proceed. A recent writer in the Miner's Journal has furnished dats, and we can do no less than avail ourself of it.

Schuylkill Navigation.—In 1847, this company essentially improved—in fact, entirely reconstructed their works. They widened and deepened the entire canal, so as to carry boats of 180 tons burden, and have reduced the number of locks from 109 to 71, 11 of which are guard locks without lift, of which the gates generally stand open, and are, in fact, closed only during freshets. The average time of passing a lock with a boat is about four minutes, at which rate all the locks on the canal could be passed in about five hours; or, making a reasonable allowance, six hours would give ample time to overcome the total descent of 620 feet—and if at every lock a descending

boat should meet an ascending one, the whole time lost in effecting the cross passage does not exceed 12 hours. This is an immense improvement over the old navigation.

Above the Blue Mountain nearly all the canals are almost equal in width to the slackwater pools formed by the dams. Below the Blue Mountain, the water line of the canal, which is never less than 60 feet, widens fre-emently to 100 feet and more. Taking these things in connection with the fact that about half the length of the navigation consists of wide slackwater pools, and it will be observ-ed that in point of width every thing practically desirable has been attained.

The successful trips which have occasionally been made by beats propelled with steam, go to show the adaption of the new canal to this kind of navigation.

The length of the new navigation, is 108 miles—its lockage 620 feet—the burden of its boats 180 tons-the size of its locks, 110 by 18 feet-the width of its canals, never less than 60 feet-and the least depth of water upon the mitre sills 51, and in the clear levels 6 feet.

A navigable route from the heart of the Coal Region to tide water, for boats carrying 180 tons is, therefore, now in full operation. The five leading rail roads, and their laterals, to the Navigation are the Mine Hill and Schuylkill Haven, terminating at Schuylkill Haven; the Mount Carbon, terminating at Mount Carbon; the Mill Creek, terminating at Port Carbon, and the Schuylkill Valley, terminating at Mount Carbon

At Schuylkill Haven a very fine dock 900 feet long, 60 feet wide. and 6 feet deep, with its rail 17 feet high above water, shute and landings on both sides, has been constructed by Mr. Dundas. This dock alone is capable of shipping, in an active season's work, at least 250,000 tons of coal, and is leased by the Nav-

igation Company.

At Port Carbon the Navigation Company have constructed an extensive series of landings. A part of these landings below the Mill Creek Railroad bridge, consists of a dock, about 900 feet long, 60 feet wide, and 6 feet deep, with its rail elevated 18 feet above water, with shutes and landings on both sides. There is room at this landing for 30 boats of 180 tons burden to load at once, and is capable of shipping 500,000 tons of coal per annum.

In the pool of dam No. 1, the company have erected 6 new landings, with their rails ele-vated 16 feet above the water, and so arranged that 6 large boats may load at once, without interruption. In addition to these, and also in the upper dam, the Navigation Compamy have leased and fitted up the long dock, which accommodates 6 large boats at the same time. Thus the Company have 42 fine landings to ship coal coming from the Schuylkill Valley and Mill Creek Railroads, and capable together of shipping near 700,000 tons in a season's work.

In addition to the foregoing, the Company have constructed a dock and landings at Mount Carbon, similar to the Firth Dock at Pert Carbon, and of about the same capacity.

To avoid any possibility of a deficiency of water in dry seasons, the Navigation Company purchased a tract of land on Silver Creek, upon which an immense reservoir is in the process of construction, and which will be completed early in the coming autumn; this, added to the two Tumbling Run reservoirs of the Company, opposite Mount Carbon, cannot leave a doubt of the capacity of the canal to float her largest boats, with their freight, at all times. This reservoir is formed by throwing a mound of earth and stone across the valley of the stream, just above or back of Mine Hill. This dam will be nearly 40 feet high in the centre of the valley, and will raise the water to an elevation of about 890 feet above the level of the dam at Port Carbon, or 1510 feet above tide water. The bank and pond of the reservoir, will cover nearly 60 acres of land. and contain about 40,000,000 cubic feet of water-it will be of itself capable of locking down about 120,000 tons of coal annually. The waters of the reservoir will be led down through three lines of cast iron pipes, 12 inches each in diamater, and being drawn in aid of the flow of the Schuylkill, during the one or two months of summer drought, will add to the capacity of the navigation very materially. Indeed, when we reflect that at all other times the flow of the Schuylkill alone is ample for any business, which single locks could readily pass, the great assistance which a reservoir of water equal to the lockage of 120,000 tons must give, will be evident to all. The distance of this reservoir from the head of the works, at Port Carbon, is about 7 miles.

The new depot for the shipments of Coal going down the Schuylkill Canal, called Red Bank, is situated on the Jersey side of the Deleware river, and the Coal-boats are towed over by steamboats. The lots, wharves, &c., are owned by a stock Company, and all the stock is already taken, and held at a considerable premium. There are nine wharves, at the ends of which there is fourteen feet of water, and over eleven feet at the lowest lowwater mark. At each wharf five boats or vessels can load or unload at a time, and the whole is capable of shipping 800,000 tons of Coal when fully completed. Red Bank, we may add, is situated but a short distance from Gloucester Point, the thriving manufacturing town, which has but recently sprung up

The Reading Railroad. - A brief history and description of this great public work may prove interesting to the readers of our little work, the information connected with which has mainly been derived from the weekly reports of its immense business

The Railroad was projected in 1833, a charter obtained in 1934, surveys made the same year, and 41 miles put under contract and con-

struction in 1835.

It was originally designed for its present purpose, an outlet or avenue to market for the Schuylkill Coal Region; but its first charter extended only to the city of Reading, 59 miles from its terminus on the Delaware River, near Philadelphia; as the right of constructing a Railroad between Reading and Port Clinton,

20 miles, had already been granted another corporation, the Little Schuylkill Railroad Company, terminating at the latter point.-From insufficient means, this company was unable to extend their road, and yielded their right and charter to the Reading Railroad Company, who, with a further extension of their charter, beyond Port Clinton to Pottsville, went into an active prosecution of the whole work, from l'otteville to the Delaware, 93 miles, under one charter, now known as

the Reading Railroad.

Every Pennsylvanian is familiar with the great embarrassments to the business of the country, checking commercial enterprize, dis-actrous to every branch of industry, and fatal to public and private credit, during the period from 1838 to 1842. Notwithstanding all these difficulties, the friends of this road pushed steadily on with its construction, taxing their energies, their means and their credit to the utmost, to insure its speedy completion; and on the first day of 1842, the first locomotive

and train passed over the whole line, between Pottsville and Philadelphia.

From that date to the present, its business, its revenue and its credit has increased, in a degree scarcely paralleled by any similar im-provement, until its tonnage and its receipts

are measured, as at present, by millions.

Two continuous tracks of railway extend the whole distance of 93 miles, from Mount Carbon, near Pottaville, to the Delaware river, three miles above the heart of the city of Phihadelphia; with a branch also laid with a double track, 11 miles long, connecting, by the State Road, with the principal business street of the same city, for the passengers, merchan-dize and city coal business. The rail used is of the H pattern, with both top edges alike; and weighs 46½, 52½ and 60 lbs. to the yard; the lightest having been first, and the heaviest last used. A few tons of other rails, purchased before a further supply of the pattern adopted for the road could be obtained in England, and varying from 51 to 57 lbs. per yard, are also in use

The track is laid in the most simple manner, the lower web or base of the rail, being notched into 7 by 8 white oak cross sills, and these haid on broken stone, 14 inches deep and well This method is found admirably rammed. calculated for the enormous tonnage of the road, being rapidly and economically repaired and replaced, securing a thorough drainage, and proserving its line and level true, at all

asons of the year.

The grades of this road, are the chief elements of its success in revolutionizing public opinion, on the subject of the carriage of heavy burdens by railway. From the most important branch, Coalfeeder of the Road, at Schuylkill Haven, to the Falls of Schuylkill, a distance of 84 miles, the grades all descend in the direction of the loaded trains, or are level, with no more abrupt descent than 19 feet per At the Falls, an assistant locomotive enginerof great power pushes the train, without the latter stepping, or any delay, up a gestle of 424 feet per mile, for 1 4:10 miles, leaving it on a descending grade, within four miles of Richmond, whither it is readily conveyed by the same engine which started from

Pottsville, never leaving her train.

The bridges on this line, are of great variety, in plan, and material of construction, store, iron and wood. The most perfect and bean-tiful structure on the road, if not in the state, s a stone bridge across the Schuylkill near Phdenixville, built of cut stone throughout, with 4 circular arches, of 72 feet span, and 164 feet rise each, at a cost with ice breakers, \$47,000. There are 75 other stone bridges and culverts, varying from 6 to 50 feet span ; all of circular arcs, spanning water courses, branches of the Schuylkill and roads. There are seven bridges from 25 to 38 feet span each, built of iron, trussed after the "Howe" plan, with wrought iron top and bottom cords, wrought iron vertical ties, and cast iron diagonal braces. These bridges are stiff and light, and present a very neat and handsome appear As, however, the flooring is of wood, and therefore liable to decay and accident, they have only been used where the width and depth rendered stone bridges impracticable; the latter being always used in replacing wooden structures, wherever it was p There are 22 long wooden bridges, varying from 41 to 160 feet span, built on various principles, chiefly of lattice work, ansie ed by heavy arch pieces. Of this latter description, the bridge over the Schuylkill at the Fall is a fine specimen. It is 636 feet long, consisting of four spans of 134, two of 152, one of 160 feet above the river. There is one bridge built on Burr's plan, with double arch ieces of 149 feet span; and one on "Howe's" plan, 156 feef span, also assisted by arch pieces. Besides the above, there are 28 wood on bridges of short spans, from 14 to 30 feet built of King post, Queen post, 'Howe's trans and joists.

There are four Tunnels on the road. longest of these is near Phoenixville, 1934 feet long, cut through solid rock, worked from five shalls and two end breasts; deepest shaft 140 feet; size of tunnels, 19 feet wide, by 174 to Another tunnel at Port total cost, \$153,000. Clinton, is 1,600 feet long, worked from the two ends only; material, loose and solid reck mixed; 1360 feet are arched; depth below the surface of the ground, 119 feet; total cost \$138,-000. The Maneyuuk tunnel is 960 feet long, through very hard solid rook, worked from two ends; depth below surface, 95 feet; total cost/\$10,000. Another tunnel under the grade of the Norristown Railroad, and through an embankment of the latter, is 172 feet long, formed of a brick arch, with cut stone facado

The Depats on this road are all substantially built, but with a view to use, rather than exament. At Schuylkill Haven, three miles from Pottsville, is erected a spacious Engi house, round, with a semi-circular dome roof. 120 feet diameter, and 96 feet high; with a 40 feet turning platform in the centre, and tracks radiating therefrom, capable of housing sixteen second clais engines and tenders. At Beading are located the most complete, ex-

tensive, and efficient workshops and Railroad buildings of every description to be found in The Company's property covers the country. here, besides the Railroad tracks, 36 acres, the greater part of which is in use for the various occupations required to keep this vast machine in life and motion. The main machine shop is 159 by 70 feet, filled with the most valuable tools and machinery, all made, with the excep-tion of three or four lathes, in the Company's workshops, by their own mechanics. machine shops, one 87 by 40 feet, are used for fitting iron and brass exclusively.

The iron foundry is 164 by 32 feet, with 2 cupolas. The largest blacksmith's shop is 121 by 31 feet, 57 smith's fires being in daily use on the works, all blown by fans driven by steam: The main carpenter's shop is 149 by 46 feet, with a pattern shop in the second sto-

The iron coal cars, tenders and smoke pipes are made and repaired in a shop 123 by 83

feet.

A merchandize depet just completed, is 124 by 84 feet, to accommodate that rapidly increasing branch of business. About a mile below the Reading depot, where the railroad is nearest the river, most efficient water works are constructed, consisting of a reservoir on the Neversink hill side, 51 feet above the rails, holding 700,000 gallons of water, supplied by a force pump, worked by a small steam en-Attached to this station are also two separate tracks, with coal chutes beneath, 300 and 450 feet long each, for the use of the town; two wood and water stations; a small portable steam engine for sawing wood, a Refreshment house for crews of engines stopping te wood or water; a brass foundry, passenger car house, passenger rooms, offices, &c. &c. All the machinery of the main shops and foundry, is driven by a very handsomely finished stationery engine, with double cranks, of 35 horse power, built entirely on the works.

At Pottstown station, 18 miles below Read-

ing, extensive and efficient sheps have also been erected, chiefly for work connected with the bridges and track of the road, and new work of various descriptions. The principal shops here, are 151 by 81, 191 by 41, and 81 by 44 feet. The first shop is covered with a neat and light roof, built of an arched "Howe truss," forming a segment of a circle, 781 feet

span by 16 feet rise.

At Richmond, the lower terminus of the Road, at tide water on the river Delaware, are constructed the most extensive and commodious wharves, in all probability, in the world, for the reception and shipping, not only of the present, but of the future vast coal tonnage of the railway; 49 acres are occupied with the Company's wharves and works, extending along 2272 feet of river front, and accessible to vessels of 600 or 700 tons. The shipping to vessels of 600 or 700 tons. The shipping arrangements consist of 17 wharves or piers, extending from 342 to 1132 feet into the river, all built in the most substantial manner, and furnished with chutes at convenient distances, by which the coal flows into the vessel lying alongside, DIRECTLY FROM THE OFENED BOT-

TOM OF THE COAL CAR FROM WHICH IT LEFT THE MINE. As some coal is piled or stacked in winter, or at times when its shipment is not required, the elevation of the tracks by trestlings, above the solid surface or flooring of the piers, affords sufficient room for stow-ing 195,000 tons of coal. Capacious docks extend inshore, between each pair of wharves, thus making the whole river front available for shipping purposes; 97 vessels can be loads ing at the same moment, and few places pre-sent busier, or more interesting scenes, than the wharves of the Reading Railroad, at Richmond. A brig of 155 tons, has been loaded with that number of tons of coal, in 130 minutes, at these wharves.

A very convenient and neat Engine House, is erected at this station; it is of a semi-circular shape, with a 40 feet turning platform in the centre, outside; from which tracks radiate into the house, giving a capacity for 26 Engines and their tenders of the largest class, the building 302 feet long on the centre line, by 59 feet wide. It is built in the simple Gothic style, the front supported by cast iron clustered pillars, from the tops of which spring pointed arches, and the whole capped with turretted capping. Immediately adjoining, are built spacious Machine and Work shops, for repairs of engines and cars, all under one roof, 221 by 63 feet. A visit to this chief outlet of the Pennsylvania Coal trade, will give the best idea of its magnitude, and of the various brane ches of industry connected with it.

amount of Running Machinery. The fatter consists of seventy-one Locomotive Engines and Tenders, including five in constant use on the Lateral Railroads in the coal region? 3020 iron and 1539 wooden coal cars; 482 cars for merchandize and use of road, and 17 pas-

senger cars.

The Engines vary from 8 to 224 tons weight; two very powerful engines, of 27 tons weight each, are used exclusively on the Falls grade, each, are used exclusively on the Falls grade, before mentioned. The iron cars weigh 24.10 tons empty, and carry five tons of cost. The average load of each engine, during the busy months of the year, is about 410 tons of coal, (of 2240 lba.) The cost of hauling cost on this road, is about 35 cents per ton. Fraight or merchandize, 75 cents per ton, and passengers 41 cents each through. Its own Dr. bave chief-ly secured this great economy in trabancement. ly secured this great economy in transportation.

The total Length of Lateral Bailroads, con-necting with the Reading Railroad, under oth-er charters and corporations, but all contribut-ing to its business, using its cars, and reuni-ing them loaded with coal and merofiancies, is about ninety-five miles. Some of these rail-roads are constructed in the most substantial manner, with the heat superstructure at premanner, with the best superstructure at present used in the country.

By the monthly Reports which have been made of the business of the Company, it appears that the receipts from December 1st, 1845 to October 31st, 1846, were \$1,707,312-25. The receipts for the remaining month of the fiscal year, which ended November 30th,

1846, swelled the gross amount to nearly 900,000. For the fiscal year of 1846-47, the receipts amounted to \$2 333,659 22; and, estimating from the same ratio of increase, they will probably reach to the amount of \$4,333,-000, for the fiscal year of 1847-48.

Our Colliers can felicitate themselves in having between their mines and tide water, two transporting works by land and water, unsurpassed by any other railroads or canals in the world. It remains for them by a firm and prudent course to secure to themselves, and their customers, the full and free use of both these works, untrammelled by the quarrels, or jealouses of either.

Number of Engines, Cars, and Running Machinery upon the Philadelphia and Reading Rail Road; November 30, 1847.

Locomotive Engines.

46 First Class Engines.

22 Second do. do. (2 sold since last report.)

. 8 Third do. do.

(out of use at present-("Delaware.") 1 Second do. do. 77 Total.

Coal Cars.

					ight,	Capacity.
. 1	Eight	whee	eled I	ron Ton	npıy.	Сарасиу.
	Co	al C	ar,		4.7	11.0
3,019	Four	do.	do.	do.	2.43	5.0
				len do.		4.65
268	do.	do.	do.	do.	2.05	3.2
				•		
4,606					2.34	4.79

Cars for Freight, and general use. 11 Eight wheeled Covered House Cars.

Do. do. Box Cars. 32 Open Platform Cars.

do.

48 Do. 153 Four do. Covered House Cars.

28 Do. do. Box Cars.

Open Platform Cars. 230 Do. do.

502 Total.

Passenger Cars.

15 Eight wheeled Passenger Cars. do.

1 Four do. do. 3 Eight do. Baggage Cars.

2 Four do. do.

do. Express Car. 1 Four

22 Total.

In addition to the above, the Company

2 Small Express Locomotives, "Ariel" and "Witch."

2 Small Passenger Cars, for use of Road. 13 Stationary Engines, from 4 to 35 Horse Power, for Driving Machinery, Pumping at Water Stations, Sawing Wood, &c. 2 Portable Wood Cutting Steam Engines,

at Reading and Richmond.

7 Snow Ploughs.

50 Horses, chiefly for hauling in Broadstreet, Philadelphia.

Summary of Liabilities a	nd Assets.
Liabilities.	Jan. 1, 1848.
Capital Stock	1,503,550 00
Common Loans,	3,083,435 34
" " London Bonds,	
Mortgage Loan, .	946,808 56
Floating Debt,	340,075 36
Unpaid Dividends, .	798 70
Arrears of Interest, .	867,095 48
Balance to the credit of Profit and Loss account,	7,346,563 44 291,633 86
	7,638,197 30
Assets.	•
Canal and River Improvements, Lehigh and Susquehanna Rail-	4,455,000 00
road, .	1,369,820.75
Real Estate, cost of Coal mine lands and other lands, Rail- roads to the Old Mines and Room Run Mines, and other improvements, Warves and Landings at Philadelphia, &c.	·
Landings at Philadelphia, &c. Moveable effects due the Company, Bonds and Mortgages,	1,193,044 48
and other securities, .	612,475 53
Cash on hand,	7,856 54
	7,638,197 30

Measures of Coal.

The coal bushel in England was formerly a metallic cylinder 194 inches in diameter inside, and 71 inches deep. In filling it, the coals were to be heaped six inches high in the middle, so that a line drawn from the apex to opposite sides of the bushel would be 114 inches in each direction." This would give the contents of a bushel of coals equal to 2,725.4 cubic inches; while the bushel, imperial measure, of the same country, is 2,218,192 cubic inches; and one bushel, Winchester measure, is 2,150.42 cubic inches.

The chaldron of coals with "ingrain" measure 104,809.572 cubic inches; and without "ingrain" 99,809.64 cubic inches. The former would be 33.45 bushels, as measured in and on the cylinder above described, and the latter 32.95 such bushels. Eight chaldrons of coals in Newcastle, are equal to 15d chaldrons in London. The chaldron in Newcastle weighs 53 cwt.; and, consequently, in London it weighs 27.35 cwt. The same authority which furnishes these data, also apprizes us that 88 pounds of coal make a bushel.

Importance of the Coal Trade.

The importance of coal, in a national point of view, need not be enlarged upon here; but the vital influence it has had on the prosperity of Great Britain, and certainly will have on this country, may be understood by quoting the opinions of a few of the many eminent British writers on political economy and statistics.

McCulloch says, "it is hardly possible to exaggerate the advantages England derives for the reat heds of coal ?" that "our foel mines are the principal source and foundation of our manufacturing and commercial prospe-rity. Coal has been happily defined 'hoarded labor;' our coal mines have sometimes been called the Black Indies, and they have con-ferred upon us a thousand times more real advantage than the conquest of the Mogul

Mr. Porter says, that her "coal mines are the names of greater riches then ever issue from the mines of Peru, or from the Diamond grounds, at the base of the Neels Mulla mountains;" that, but for the command of Coal, the inventions of Wett and Arkwright would have

been of small account, &c.

The author of "Fossil Fuel" says, that coal, by the agency of steam, has enabled Great Britain to undersell the world in her manu-

factures.

Dr. Buckland in mentioning the importance of coal, says that "amount of work done in England has been supposed to be equiva-lent to that between 3 and 400,000,000 of men by direct labor, and we are almost astounded at the influence of coal and iron and steam, up-on the fate and fortunes of the human race;" that " the presence of coal is in an especial degree, the foundation of an increasing popula-tion, riches and power, and of improvement in almost every art which administers to the ne-cessities and comfort of manking, &c.

Mr. Page, in his evidence before Parliament, said, "The manufacturing interests of

this country, colossal as is the fabric which it has raised, rest principally on no other bathan our fontunate public with regard to rocks, (carboniferous) of this seriesour coal mines ever be exhausted, it would

melt away at once, &c.

Such opinions from these eminent writers should not surprise us, when we know that about 31,500,000 tons of coal, valued at the pit's month at \$63,000,000, are annually mined for the use of twenty-six millions of linhab itants, or over one ton for each person in fluent Britsin, and there is no reason that an equally great production and consumption in propo-tion to the population should not in due time take place in the United States, if our house industry be as wisely fostered as that of Eng land. Our 20,000,000 of people at present consume about 5,000,000 tons of coal; but the present rate of increase is such as to indicate a future consumption, twenty years hence, of at least 15,000,000; and as the population will then be over 80,000,000, this would be but half a ton to each inhabitant. But if the pupulation increase as some staticians have o culated, in 1875 to 51,000,000, and we allow them the same proportionate consumption as now exists in Great Britain, we shall have a total annual consumption of 59,500,000 tous. And there appears to be no good reason for doubting the probability of such an increase; for the experience of the last twenty years has shown no calculations, however wild and extravagant they may have seemed, which have approached the condition of facts that is now before our eyes.

THE ELECTRIC TELEGRAPH.

Most wond rous specimen of art, With nature's laws combined-Thou actest an enchanter's part, Unrivalled in its kind.

United, at a moment's date. Two distant spots we see Whilst time and space, annihilate, Are set at nought by thee!

The fabled wonders, which of old Our childhood leved to read, Have scarcely equal wonders told, To match thy lightning speed.

The waive of the magician's mand, Makes distant scenes appear; Whilst far off lands, at thy commend, Obschantly happ.

O'er miles and wiles the message flies; Yot surely it is said, When, lo! the listance seplies. Before a moment's fled

When shall thy new-found influence cease?
How far will it splend?
Shall not its curjons power's increase,
Remotest nations blend?

10*

Yet enemies thou need'st must find True merit raises spite; Then think of the fees combined, With which thoul't have to fight.

Ambassadors, who'll be sent back From every foreign nation, With secretaries at their back, All dying of vexation.

The Post-office destroyed will be; For, where's the use of writing When back the answer comes by Whilst queries we're inditing?

Let's have a talk, then, quite at ease, And gessip while we may; Let's chat a while with the Chinese, And jost with Paragnay.

Wo'll ask a riddle in Peru. Tell tales at Ispahan—
Just speak a word in Timbuctoo,
And whisper with Japan.

As mend the world thy influence sells,
For one, I shall not wonder,
To find, derough thee, the very Folian
Causet he kept sounder.

NOTES AND STATISTICS OF THE PENNSYLVANIA COAL TRADE.

Coal, observes an anonymous writer, is evidently a result of the decomposition of the compound of bodies from which it is obtained. It consists of the greatest part of the earthy principle of these compound bodies, with which a part of the saline principle, and some of the phlogiston of the decomposed oil, are fixed and combined very intimately. Coal can never be formed but by the phlogiston of a body which has been in an oily state; hence it cannot be formed by sulphur, phosphorus, metals, nor by any other substance the phlogiston of which is not in an oily state. Every oily matter treated with fire in close vessels, furnishes true coal; so that, whenever a charry residuum is left, we may be certain that the substance employed contains oil.

resistance employed contains oil.

The inflammeble principle of coal, although it preceeds from oil, certainly is not oil, but pure phlogiston, since coal edded to sulphuric acid can form sulphur; to phesphoric acid, can form phosphorus, &c., and since oil can preduce none of these effects till it has been decempesed and reduced to the state of coal.—Besides, the phenomena accompanying the burning coal are different from these which happen when oily substances are burnt. The flame of charcoal is not so bright as that of oil, and produces no flame or soot.

All the phlogiston of coal is not burnt in the open air—particularly when the combustion is slow. One part of it exhales without decomposition, and forms a vapor, or an invisible and insensible gas. This vapor, (which is, or at least, contains a great deal of fixed air) is found to be very pernicious, and to affect the animal system in such a manner as to occasion death in a very short time. For this reason it is dangerous to remain in a close room or place where charcoal or any other sort of coal is burnt. Persons struck by this vapor are stunned, faint, suffer a violent headache, and fall down senseless and motionless. The best method of recovering them, is, simply, timely exposure to the open air, and by making them swallow vinegar and breathe its steam.

Among coals, considerable difference is observable, which proceeds from difference in the bodies from which they are made; some coals, particularly, are more combustible than others. This combustibility seems to depend on the grater or less quantity of saline principle they contain—that is, the more of the saline principle it contains, the more easily it decomposes and burns. This difference in coal varies in about the same proportion that the difference in the properties of various kinds of wood varies when exposed to fire. The difference in coal, unlike that in wood,

relates also to the localities where it is found it is therefore, rarely that the opposite extremes of its analytical properties are united in the same spot. We append an analysis of these two extremes—the first being that of the purest and best coal, and the latter, the inferior, and least valuable.

Analysis of Anthracits.

1	Carbon, . Volatile mate Ashes,	0 r ,		90 6 3	per cent. de do
				1.00	•
	(Carbon,			77	per cent.
2	Volatile matt	er,		11	ob Č
	Carbon, Volatile matt Ashes,		. .	12	do
•	•			1.00	

This difference in the quality of coal is again perceptible in reference to its weight. We append the following, which will exhibit the character of our anthracites according to the weight of each respectively, per cubic yard.

Weight of Anthracite Coal. First, or Schuulkill Region.

-	
Localities proceeding from West to East.	Weight of a cubic yard in lbs.
Lyken's Valley.	2224
Stony Creek, 6 mile openings,	2244
Big Flats,	about 2351
Rausch Gap,	2453
Lorberry Creek,	2484
Pottsville,	mean 2504
Tamaqua, Vein N.	2700
Lehigh, Mauch Chunk,	2615
Do Nesquehoning,	2646
Second, or Middle Re	rion.

Localities proceeding from West to East.	Weight of a cubic yard in lbs.
West Mahanoy Coal,	2313
Hazleton,	2615
Girardville,	2700
Beaver Meadow,	2700

The Pennsylvania Anthracite appears to be altogether heavier than the European, as will appear from the following:

Eur o pean.	
South Wales (Swansea,)	2131
France, (Grenoble,) Black Spring Gap,	1809
	. 10001
Pennsylvanian. Wilkesbarre, (Baltimore co.)	
Poltavilla	2484 2649
Tamaqua, heaviest,	2808

The bitaminess coals of the United States are also considerably heavier than those of Europe. With bot one or two exceptions, all Coals of the United States exceed one ton in weight to the cubic yard; while there is no instance of the bituminous Coal of Europe reaching that weight.

Prof. Johnson, who conducted, by authority of Congress, a series of experiments on American Coals, applicable to steam navigation, and to other purposes, in his report to that bedy, in 1844, says that the justly celebrated foreign bituminous Coals of Newcastle, Liverpool, Scotland, Pictou, and Siduey—Coals which constitute the present reliance of the great lines of Atlantic steamers—are fully equalled, or rather surpassed in strength, by the analogous Coals of eastern Virginia; that they are decidedly surpassed by all the free-burning coals of Maryland and Pennsylvania; and that an equally decided advantage in steam-generating power enjoyed by the anthracites over the foreign coals tried, whether

we consider them under equal weights or equal bulks.

fie also adds, that experiment appears to demonstrate that, for the purpose of repid evaporation, for the production of illuminating gas, the coal of Indiana, though neither very heavy nor very durable, is inferior to none of the highly bituminous class to which it belongs; since in heating power, and in freedom from impurity, it surpasses the splint and caunel coal of Scotland.

From this report we select the following table, which is copied by Mr. Taylor with the following remarks:

"Our space produces our quoting extensively from this voluminous document, [Prof. Johnson's Report]; but we cannot refrain from selecting the following table, of the relative degree of comparative power of different coals under similar or uniform bulks. We select this table, at the suggestion of the author, in preference to that which exhibits "the order of evaporative power under equal weights."

	againcation of American C again bulks, to which is as Coals under equal societies and of their marketable v	ared the Leighte Diff.	vaporative power under terical rank of the same f their specific gravities,	Pounds of steam from 20, produced by one bic foot of each coal.	Relative evaporative power for equal bulks of Coal.	Evaporative power in under equal weights.	the order of their mile gravities.	in the order of their S. weight in the markets ble state.
8	Names and localities.	State or County.	Quality.	Cabi	85	and	apec a	In Wedg bles
34 F E N C B N E 10 B 11 B 12 M	tkinson's Cumberl'd coal, saver Meadow, Slepe V., saveh Moustain, orest improvement, asby's Cumberland coal, Y. & Maryland Comp., tucen's Run coal, lessburg. eff's Cumberland coal, asby's "coal in store," eaver Meadow, No. 3. "axy yard, "this is to compete the coal in store," eaver Meadow, No. 3. "axy yard, "this is 1-5 Cumberl'd, and	Maryland, Pennsylvania, Schuylkill Co. Pa., Maryland, Cumberland coal, Clinton Co., Pa. Tloga Co., Pa Maryland, Cumberland, Md. Pennsylvania,	Dry Bitiminous coal, Anthracite white ash, " red sah, " white ash, " white ash, " free burning, Moderately bituminous, "Free burning bituminous, Anthracite white ash,	566 2 556.1 545.7 540.8 535.6 594.8 517.0 515.9 512.7 511.1 505.5 500.0	1000 989 964 955 946 927	1 7 3 4 6 9 2 10 12 5 15	29 3 6 5 21 9 22 25 20 30	21 11 11 13 23 12 29 16 5
14 L 15 R 16 S	4-3 Beaver Meadow, eligh Coal, elston, mmnit Portage coal, fixture 15 Mid-Lothies	Pennsylvania, Lycoming creek, Pa. Cambria Co., Pa.	Mixed, Anthracite white ash, Moderately bituminous, Bituminous,	498.5 494 0 493.3 486.9	880 872 871 860	16 93 94 14	16 12	6 3 2 17
19 L 20 K	and 4-5 Beaver Meadow, arr's deep run, ackawanna, arthaus, tony Oreck, Perseverance	near Richmond, Va. Pennsylvania,	Mixed, Bituminous, Anthractic white ash, Moderately bituminous,	481.1 478.7 477.7 477.4	850 845 844 843	19 8 17	17 10 34	8 19 30 22
124 M C M M P C M M C P S L 4 T C C C C C C C M M C M M C M M C P S L 4 T C C C C C M M C M M M M M M M M M M M	seam, ykens Valley, istou, iid-Lothian, average, rouche's Pits, swesstle, iid-lothian, 900 feet shaft, iiew shaft, ictou, Cunards, hesterfield company, iid-Lothian screened, astaral Coke, rasek company, ittsburg, ydney Coal, iverpool, cotch, ippecance, sanselton, lover Hill, oke of Cumberland coal, oke of Richmend coal, ry Pine Wood,	Dauphin Co., Pa. Nova Scotia, Richmond, Va. England, Virginia, Nova Scotia, Richmond, Va., "" Chesterfield Co., Va., Pennsylvania, Cape Breton, England, Scotland, mear Petarsburg, Va. Indiana, Richmond, Va., Maryland, Virginia,	Fat Bituminous coal, Bituminous, Fat Bituminous coal, Bituminous,	472.8 459.7 450.6 448.5 439.6 439.6 417.9 418.6 417.9 406.7 396.3 391.8 350.2 348.8 350.2 348.8 284.0 98.6	738 726 729 698 692 678 669 669 618 616 614 509	13 11 33 35 34 27 29 96 30 29 31 31 32 36 37 38 42 40 21 40 21 40 21 40 40 40 40 40 40 40 40 40 40 40 40 40	8 15 26 31 7 38 13 24 28 32 35 36 27 39 197 4 18 55 33	26 21 15 14 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29

Mr. Johnson remarks, that Coal; "when sold by weight, and used on shore, the weight per cubic fast is a point of little moment-space for storage is easily obtained. But in steam navigation, bulls, as well as weight, de-mand attention; and a difference of twenty r cent., which experiment shows to exist between the highest and lowest average waight of a cabic feet of different coals, asumbs a value of no little megnitude. This is obviously true, since, if other things be equal, the length of a voyage must depend on the amount of evaporative power afforded by the fuel which can be stowed in the bunkers of a steamer, always of limited capacity.

General Features of Pennsylvania Anthracite.

The authracites have specific gravities, varying from 1.39 to 1.61; retain their form when exposed to a heat of ignition, and undergo no proper intumescence while parting with the small portion of volatile matter which they contain; or, if changed at all, are only disintegrated into angular fragments. Their flame is generally short, of a blue color, and consequently of little illuminating power. They are ignited with difficulty; give an intense concentrated licat; but generally become entinct while yet a considerable quantity remains unburut in the grate.

In experimenting with American coals, Prof Johnson thus describes the differences between the red and white-ash coals of our

region.

First, of the Red-Ash, Peach Mountain. The sample exhibited a duep jet-black color; an unever splintery fracture; a lustre varying from dull to shining, according to the direction in which the fracture is made. Like all the

other anthracites, it was wholly unafferred by atmospheric influences in a period of eighteen mentle, during which time they were it my

This sample is more easily seperated at the surfaces of deposition than most of the whiteash coals, but less so than that of Lyken's valley. It has no exterior indications of impurity, such as discoloration from oxide of iron, or efflorescence of metallic salts. It has certain surfaces polished and minutely stricted, appearing as if they had been subjected to friction under intense pressure. This feature is not, however, of so frequent occurrence in this, as in many other samples of anthracite.

Its specific gravity, determined by two specimens, was found to be 1.465 and 1.4632 the mean of which enables us to calculate the weight of a cubic foot of solid coal at 91.505 pounds. But the weighing of 70 charges of. 2 cubic feet each, in the state of lumps, gave-53 7939 pounds per cubic foot, proving that the actual weight in the market is but 0.5978 of the calculated weight in the mine. same data prove that 42.54 cubic feet of space will be required for one gross ton.

Analysis. Carbon, Volatile matter, Earthy matter, 342.00F

Second, of the White-Ash, Summit Hill .-The aspect and character of this coal leave no doubt that it will remain for any desired length of time, either under shelter or in the open air, without material change.

The coal was received generally in lumps, requiring to be reduced in order to be burne advantageously on the grate. Its sepret is that of most of the harder antifracities, possessing a deep black color, shining uneven

Composition and character of Ashes. from various kinds of Coul

Character and ingre- dients of ashes:	Sugarloa [Company's Anthracited Hazle Creek—1st specimen. Specific gravity 1591.		Sugarloaf Anthracite,—3d speci- men. Specific gravity 1.55.	Buck Mountain Authracite. Specific gravity 1.559.	Summit Coal Comp.'s Authracite, head of Beaver Creek,—1st sp. Specific gravity 1.613.	Summit Company's Authracite, —2d specimen. Specific gravity 1.594.	Stovenson's Bluff Anthracite, Beave creek, Specific gravity 1.612.	Salem-vein Anthracite, Potts. ville. Specific gravity 1.569.	Quin's Run butuminous Coal. Specific gravity 1.372.
Per centage of ashes in the coal, Color, Silicana ashes, pr. et. Alumina, Peroxide of iron, Lime, Magnesia, Oxide of manganese, Loss, per cent.	4.83 light	8.73 reddish white 45.105 37.000 13.000 1.380 2.430	43.68 39.34 3.22 5.76 3.00		5.01	4.00 reddish gray. 50.25 38.90 8.75 0.85	3.71	6.75 brick red. 50.00 38.90 8.00 2.10 0.90	6.30 gray. 76.00 21.00 2.60
Sum	99.989	100.	100.	99.52	100.	100.	100.70	99.90	100.

and splintery fracture, with occasional exposure of concholder forms; a stricted rather grayish appearable, generally indicative of cossiderable performs of darthy inspurity, marked dertain surfaces. This seams of deposidates are soldent followed by the fractures.

The specific gravity of two specimens was feast as be 1,8128 and 1,3672, from which the calendard weights per cubic foot are 180.79 and 97.99 pompts, respectively, or, on an average, 98.39 penduds.

Analysis. Carbon, 88.052
Volatile matter, 5.285
Earthy matter, 6.663

The foregoing tables will, doubtless, give a satisfactory exhibit as to the relative value of the different coals named for steam navigation, iron making, or fer generating steam ordinarily. For stove use, the following experiment will determine the respective value of the white and red-ash varieties. Two rooms of searly the same size, and having the same temperature, were selected to ascertain how many pounds of each kind would be required to heat them to a temperature of 65 degrees, during a period of fifteen hours, when the temperature out of doors, at 9 A. M., was at ten degrees below the freezing point. Two days were occupied in the trial, so that the red and white-ash coals might be used in afferwate rooms. Fires were made at 9 A. M. and continued until 12 P. M. Two thermo-

meters (one in cach room) were suspended at the greatest distance from the grates, and the temperature was carefully registered every four. The result was as follows: Thirty-one pounds, each day, of the Schuylkill red-ask coal, gave a mean temperature of 64 degrees; and thirty-seven pounds, each day, of the Lehigh, white-ash, taken from a vein of high repute; gave a mean temperature of 63 degrees—thus making 2000 pounds of the rad-ash to be equal to 2,387 pounds of the white-ash, or red-ash coal at \$5 50 per ton, to be equal to white ash at \$4 61. This, says Mr. Taylor, settles the question between the two coals on the score of economy.

MISCELLANEOUS STATISTICS.

Accompanying this work will be found an interesting table, exhibiting the different routes to market, with the respective distances of the mining districts from the principal markets. (See page 57.) We have altered its shape only, as taken from the Beport of the President of the Dauphin Coal Company to the Board of Managers. 1842.

The following table will show the railways and Canals in direct communication with the Coal regions of Pennsylvania, and which were constructed almost entirely for the purpose of the Coal trade. Of the railroads under ground no exact statement can be afferded. We have, however, made an estimate of the probable length and cost, which will doubtless suffice:

Canal and Railroad System in relation to the Anthracite Districts of Pennsylvunia.

Names of RAILROADS AND CANALS.		nals.	Rail	roads.	Total Cost.	
RAILEGADS AND CANALS.	No.	Miles	No.	Miles	Dollars.	
Lehigh Navigation,	ī	874			\$4,455,000	
Lehigh and Susquehanna Railroad,	1	•	1	20,	1.35(.000	
Mauch Chunk and Summit Railroads, &c.,	1	Ī	1	36	831.684	
Delawana Division of the Penn. Canal	1	43			1,734,958	
Beaver Meadow Railroad.	1	1	l ı	26	360.000	
Hazleton: Railroad.	i	l	1	10	120,000	
Buck Mountain Railroad.	1	ļ	1	4	40,000	
Summit railroad.	Į.	I	1	8.	20.000	
Delawara and Hudson Canal-partly in N. Jersey	1	108	1	16	3,256,000	
Morris Coal Canal, in New Jorsey,	1	102	1		4,000,000	
The Schrylkill Navigation.	j 1	108	ĺ		5,785,000	
The Residing and Pottsville Reilroad,	ł	ı	1	98	11,590,000	
Little Schuvlkill and Tamaqua Railroad.	1	l	1 1	20	500,000	
Mine Hitt and Schuylkill Haven and Extension,	.!	l		r		
to Swatara.	ł	ŀ	1	55	550.000	
Danville and Potteville, 444 m. unfinished,	i	i	l i	294	680.000	
Mount Carbon Railroad	1	Į	l i	7~	155,000	
Do and Port Carbon Railroad.	ì	ſ	1	24	120,000	
Schuylkill Valley Railroad, -	Į	l	l i	14	300,000	
Mill Creek Railroad,	}	l .	1	6	120,000	
Railroads by individuals,	1	ł	i	70	180,000	
Under-ground Railroads,	1	ł		100	120,000	
Lyken's Valley Railroad,	1	ľ	1	16	200,000	
Wisconingo Canal.	1 1	12	:		370.000	
Swatara Railroad.	1	ľ	1	4	20,000	
North Branch Canal-division,	1	73	i - i		1,491,894	
Do extension -	1	90			1,296,416	
Wyoming imprevements, not ascertained,					J	
•	-	6234	12	436		

There are many private reliroads constructed since the above was drawn up. The whole may be estimated at more than forty millions of dollars.

The table entitled "Official Report of the Anthracite Coal Trade of Penusylvania," and which is attached to the table of "Distances" accompanying this work, will exhibit the annual product of each mining district from the commencement. Annexed is a table showing the Importation of Foreign Coal into the United States;

Years.	Tons.	Official Value Dollars.	Received.	Т	'ariff',
1789	3,850	-		2 cts. a	bushel.
1795	4,477	-	8.338		100
1800	11,787	-	25,150 /		
1805	17,805	-	25 810 (5 cts.	do.
1810	14.030		19,907		
1814	69I	War.	War. ?	10 cts.	200
1815	3,514	Peace.	Peace. 5	to cts.	do.
1820	24,061	-	53,685	5 ets.	do.
1825	25,795	108,527	1	10000	
1830	58.589	204,773	98,417		
1835	59,972	143,461			
1837	153,450	-	1	6 ctm.	do.
1839	181,551	-			
1840	162,867	387,238	273,610		
1842	141,526		1		
1843	41.163	116,312			
1844	87,073	236,963	3	1000	
1845	85.771	224.483	151.021 5	\$1.75 pr	ton.
1846			274,492		
1847				30 pr. c	ad vl

Average Prices of Labor.
WAGES PER DAY.

Years.	Miners.	Laborers.	Remarks.
1831	\$1 00	80 cents,	
1840	874	70 "	l
1841	87 i	1 70 " 5	Wages paid in orders.
1842	87 i	70 "	
1843	1 10	80 " 1	-
1844	1 154	85 "	Labor indemand, and
1845	i 20°		wages paid in money.
1846	1 25	87 ")	
1847	1 25	88 " *	
1848	1 00		Labor not in demand,

^{*} Wages same price as last year, owing to high price of provisions. The price of coal averaged 25 cents per ton less, and the collieries generally lost money on their business.

Average Prices of Anthracite in New-York, Boston and Philadelphia.

Years.	Philadelphia. Wholesale, per ton of 2240 lbs.	Retail,	Boston. Retail per ton of 2000 lbs.
1839	\$5 50	\$8 00	\$ 9 00 to 10 00
1840	5 50	8 00	9 00 to 11 00
1841	5 00	7 75	8 00 to 9 00
1842	4 25	6 50	6 00 to 6 50
1843	3 50	5 75	6 00 to 6 50
1844	3 37	5 50	6 00 to 6 50
1845	3 50	575	600 to 700
1846	4 00	6 00	650 to 700
1847	3 85 to 4 00	5 50 to 6 00	6 50 to 7 00

COAL TRADE FOR 1847-8.

The following is the official quantity of Coal sent to market in the following years, which

we have procured at considerable treuble and can be relied on as correct.

Schuylkill.	1847.	18 46 .	Increase.
Bailroad.	1,360,681	1,233,562	127, 119
Canal.	222,693	3,440	219,253
Pinegrove,	67,457	58,926	8,531
	1,650,831	1,295,928	354,903
Lehigh,	643,973	522,989	120,984
Lackawanna.	388,203	320,000	68,263
Wilkesbarre,	284,398	192,503	91,896
Shamokin,	14,904	12,572	2,332
	2,982,309 2,343,992	2,343,992	

Increase in '47, 638,317 tons.

Of the quantity sent to market,	Schuylkili
County furnished, tons,	1,650,831
All other regions, "	1,331,275
Excess in favor of Schuylkill Co.	319,536

It will be observed that the increase for Schuylkill county in 1847, 354,903 tons, and the increase from all the other regions was

only 283,211.

Of the whole quantity sent to market since the commencement of the trade, Schuylkill Co., has furnished tons, 10,213,120 All other regions, "8,580,480

18,793,603

Coal Trade of the Line.

The following is the quantity of Coal delivered on the line of Railroad in 1846 and 1847.

	1847.	18 46
Orwigsburg,	167	75
Port Clinton.	0	6
Hamburg,	1007	971
Mohreville.	1060	1300
Between Mohrsville and	ì	
Reading, .	1324	1042
Reading,	47,574	35.738
Baumstown,	1446	1854
Douglassville, .	1733	1433
Pottstown,	6109	3696
Royer's Ford,	285	317
Phoenixville,	45,878	23.853
Valley Forge,	1990	1480
Port Kennedy,	6774	4079
Norristown.	9061	11,988
Lime Kilns below Norristo		1362
Conshohocken Spring Mil	1	
and Plymouth,	41.458	26,170
Manayunk,	5345	6930
Falls.	7059	2996
Germantown.	3875	5362
Nicetown,	5098	5720
Trenton Railroad,	0000	2907
Junction with Sate Road.	10,343	6181
Junction with Seco Monda,	10,040	
	201,140	155,460
To Philadelphia,	203,540	198,582
To Richmond,	956,001	844,216
,	1,360,661	1,188,256

The quantity of coal delivered on the line of canal during the year 1847, was 25,470 tons—making the whole supply for the year 1847, 226,610 tons, an increase over 1846 of 71,150 tons.

Lehigh Coal Trade.

The following is a comparison of the trade in the following years, sent from the different sections of this region:

	1847.	1846.
Lehigh Summit Mines,	201,961	165,011
Do. Boom Run,	132,978	109,652
Beaver Meadow Co.	109,363	85,948
Summit Co.	32,820	11,868
Hazleton Co.	105,766	98,541
Buck Mountain Co.	50,847	46,104
Wyoming, .	10.246	5,866
		
	643,912	522,989
	522,989	
Increase in 1847	190 993	

The Swatara Coal Region.

This region is beginning to attract attention, from the fact that it has secured to it two outlets to market, which will greatly increase its trade hereafter, and render a large extent of coal land productive. During the last season the extension of the West Branch Rail Road, a distance of 7½ miles, was completed, which connects Tremont, Donaldson, &c., with the Schuylkill Valley at Schuylkill Haven, and about 2000 tons were sent to market. The increase this year will be considerable.

Little Schuylkill Coal Trade.

The trade from this region is on the increase, and will no doubt continue to increase very rapidly hereafter. The facilities have been greatly increased by the laying down of a substantial iron road leading from Tamaqua to Port Clinton, a distance of 20 miles, and the introduction of motive power during part of the past season. There are ten collieries in operation, and one preparing. Eleven engines in all, of 200 horse power, are at work in the region, ten of which drive breakers—and one is used for hoisting coal. There was sent from this section of the region, in 1847, 106,401 tons of coals, by the following operators:

J. & R. Carter	tons,	31,344
Heaton & Carter, .	"	24,282
Harlan & Henderson.	**	16,901
Robert Ratcliff & Co.,	" .	13.512
James Taggart, .	44	9,488
Wm. Donaldson, .	. "	9.265
Hendricks, Jones & Birbec	k.	.,
(new colliery,) .	-'' "'	802
John Anderson & Co.	44	807
•		106,406

The following shows the trade of this region from its commencement in 1832, in round numbers:

		Tons.
ĺn	1832	14.000
	1833	40,000
	1634	34 000
	1835	41,000
	1836	35,000
	1837	31.890
	1738	13 000
	1839	9,000
	1840	20.000
	1841	40.000
	1842	27,000
	1848	31.000
	1844	57 000
	1845	74.000
	1846	91,000
	1947	196,401
To	tal in 16 years,	654,258

The town of Tamaqua has increased very rapidly in population during the last year—we suppose it has nearly trobled within the last four years. Whole streets have aprung up as if by magic, and some of the edifices are among the largest, most substantial and beautiful in the county.

The Foreign Coal Trade.

The following is the quantity of coal imported in the United States, from June 30th, 1821, to June 30th, 1847, both years inclusive, in tons of 28 bushels, obtained from the official documents at Washington, together with the quantity of Anthracite sent to market annually during the same period.

Years.	Foreign Coal.	Anthracite Coal.
1820	~	365
1821	22,122	1,073
1822	34,523	2,240
1823	30,433	5,323
1824	7,228	9,541
1825	25,645	34,983
1826	35,665	48.047
1827	40,257	63,434
1828	32,302	77,516
1829	45,393	112,083
1830	58,136	174,734
1831	36,509	176,820
1832	72,978	363,871
1833	92,432	487,748
1834	71,626	376,636
1835	49,969	560,758
1836	108,432	682,428
1837	153,450	881,476
1838	129,083	739,293
1839	181,551	819,327
1840	162,867	865,414
1841	155,394	958,899
1842	141,521	1,103,001
1843	41,163	1,263,539
1844	87,073	1,631,669
1845	85,776	2,623,052
1846	156,853	2,343,992
1847	148,021	2,982,309

The importation of Foreign coal, under a duty of \$1.75 per ton, our readers will observe, has increased considerably within the

last two years, ending June 30th, 1847. This was caused in a great measure by the heavy trade between this country and Europe, in the shape of bread stuffs—coal having been substituted on their route home as ballast.

The Coal Trade of 1848.

The Coal Trade has, throughout the whole of the season now drawing to a close, been exceedingly dull. The prices, early in the season, experienced a ruinous fall, and they have not yet recovered; nor is there a reasonable prospect of an immediate recovery.—There has been no material increase of consumption over last year, for manufacturing purposes; the principal increase has been for steamboats, and similar purposes—while for domestic purposes the increase has maintained its usual per centum with the increase of population, &c. The whole increase, therefore, is less than one-half what it was at the same period last year, and the prospects of the miner, the laborer, and the Coal operator are alike gloomy and alarming.

Schuylkill.—The following is the amount of Coal transported over the several railroads of Schuylkill county, up to the 5th of August, 1942

Mine Hill and S. H. Railroad 369,425 01 Mount Carbon do 139,033 02 Schuylkili Valley Mill Creek do 180,780 06 do 121,539 10 Mt. Carbon & Pt. Carbon do 226,128 19 Little Schuylkill Railroad Union Canal Railroad 91,254 03 32,091 13 2 Swatara Bailroad 15,581 06

The following is the amount of Coal sent from the points named, up to the 3d of August,

	RAILROAD.	CANAL.
Port Carbon	224,175 15	139,994 01
Pottsville	119,289 17	15,409 19
S. Haven	305,189 11	58,584 10
Port Clinton,	87,031 06	3,185 16

725,627 09 217,172 06

[For rates of toll, and other particulars of inland transportation from the Coal Regions, see advertisements near the end of this book.]

Lehigh.—The following is the amount of

Lehigh.—The following is the amount of Coal forwarded from the mines in the Lehigh District, up to July 29, 1848.

District, up to July 29, 1848.	
Sammit .	114,606,09
Rhume Run	114,606 09 59.659 03
Beaver Meadows	40,077 19
Spring Mountain	32,781 11
Hazleton	53,527 15
Back Mountain	37,459 08
Wyoming	3,113 09

341,225 09
To the same period last year, 325,561 01 tone.

Delaware and Hudgas.—The amount of
Coal shipped this year to July 22, is 194,949 00
—to same period last year, 162,596 00.

Coal Breakers.

On the West Branch there are 26 Breakers in use, 12 of which are of Battin's Patent, 3 of

Kauffman's, 2 of Richardson's, and 2 of Rehaven's.

On the Norwegian there are 13 Breakens, 12 of Battine' and 1 of Dehaven.

On the Mill Creek there are 13 Broateges—10 of Battin's and three Coffee Mills. On the Schuylkill Valley there are 19 Breakers—15 of Battin's, 1 of Richardson's, 1 of Dehaven's, and two Coffee mills.

On the Little Schuyskill there are 7 Break-

ers, we believe all of the Lehigh pattern.
On the Swatara there are 5 Breakers—1 of
Battin's, the others are Umbaltz' pattern.

Recapitulation.

Battin's	5.7
Richardson's	3
Dehaven's	5
Coffee Mill Breakers,	5
Kaufiman's	3
On the Little Schuylkill, Lehigh Pattern,	7
On the Swatara, Umboltz's Pattern,	4

Total number of breakers in me,

All Battin's Breakers are driven by steam, except three—one of which is driven by water-power, and the others by house-power. The of Richardson's is driven by house-power, sides three of the Cotlee Mills. The other Cotlee Mills are driven by water-power. The namber of breakers driven by steam-power, is \$35. All these breakers, with the exception of one or two, have been introduced within sharmay years.

Progress of Steam Power in the Coal Business.

The whole number of Steam Engines engaged in the Coal Trade in this region is as

·		n gip es.	Herse Power.
Engaged in the trade i	n 1845,	6 8	2018
Added in	1846	, 98	908
	•	106	2921
Added in	1847,	196 61	1544
	-	167	1465

Making the whole number of Engines engaged in pumping, hoisting, and breaking Coal in the Schuylkill County Coal Region, 167—with an aggregate power of 4465 hoises. As a portion of these engines are run day and night, a horse power may be estimated equal to the power of ten men, consequently they perform the labor of forty-four theusand six hundred and fifty men.

All the Engines added in 1847 were built in Schuylkill County. Our mentionists also built, during the year, 18 engines for other purposes than mining, with an aggregate passer of 668 horses. Eight of these are used in Schuylkill county for various purposes, the others were sent to Boston, Reading, Harrisburg, Columbia and Carbon counties, Sunday, Mexico, Sc. Sc. making 79 strangengues, the power of \$213 horses turned out in Schuylkill County in the year that.

Agriculture, " 3,216 Tamiqua Mineraville Confessee, " 78 Port Carbon Warmer's & trades, " 972 Schuylkill Haven

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Tattin's Palent, 3.05 in Schuylkill County in the year 1887. Wa

question whether any other county or city in the United States turned out an equal number of engines within the same period.

By a recent official report, it appears that in France, which numbers a population of upwards of 34,000.000 inhabitants, there were in 1845, only 207 steam engines in operation in that country—there are in Schuylkill county slone 206 steam engines erected at the present time, all of which are running except three or four.

The ungines built and sold during the last year wore turned out at the following establishments:

	No.	H. Power
Hay wood & Snyder, Pottsville	9, 18	658
E. W. McGinnis, "	12	480
J. L. Pott, "	4	75
W. Dehaven, Minersville,	20	540
8 Sillyman & Co., Port Carb	n,6	120
T. Wintersteen, "	6	139
Hudson, Smith & Taylor,		
Tamaqua,	8-	140
Umhoitz & Co., Tremont,	4	50
Hawke, Sykes & Vancleve, S	it.	
Clair,	1	15
	79	2212

MISCELLANEOUS STATISTICS OF SCHUYLKILL COUNTY.

Schuylkill county was erected from Berks and Northampton counties, by an act of the Legislature of the 1st of March, 1811. Length 30 miles, breadth 20, and area 750 miles.

	-,	
Pepulation in	1820,	11.339
- ,,	1830,	20,744
17	1840,	29,053
.11	1845.	31,992
11	1040	99 551

Its NOUNTAINS are, on the South, the Kittatinny; then, Second. Sharp and Broad mountains occar; the Mahantango and the Line mounteins are in the North-West part of the county; and on the North-East are the Locust, Mahanoy and Green mountains. Several others of less size fill up the spaces between the principal ridges above named.

The STREAMS are the Schuylkill River, flowing to the Delaware, with its various branches, of which Little Schuylkill is the principal, and Norwegian and Mill Creek the least; the Swatara in the South-West, the Mahantango in the North-West, and the Mahantoy in the North, all emptying into the Susquehanna. In the North-East, the Catawissa empties into the North Branch, and in the South-east are comfort the Leibntstries of the Leibnts.

some of the tributaries of the Lebigh.
Schuylkill county contains 18 townships, 6 berwaghs, and a number of busy, flourishing villages.

Primery	and C	ommon Schools in Grammar Schools,	1840;	31
Persons	oo baa	d in Mining.	"	1,108
. •	~ ,,	Agriculture,	"	3,916
	**	Commerce.	. 19	78
	"	Manuf's & trades.	**	972

Primary and Common Schools, in 1	848.	40
Academies and Grammar Schools,	"	5
Persons engaged in mining, over	"	7.000
" agriculture,	"	3,302
" commerce, over,	**	250
" manuf's & trades	, "	1,50
Manager and mulliple of in the a		

Newspapers published in the county.

	Pottsville, Schuhlkill Haven,	3 E	nglis	h, 2 G	erman	
Ιn	Orwisburg, Tamaqua,	. 1	"	. 1	"	
		-		-		

COUNTY OFFICERS.

J Thomas Werner,	Sheriff
Christian M. Straub.	Prothonetary
Samuel Guas,	Prothonetary Register and Rec'r
Benjamin Christ,	Treaurer
Benjamin Christ, George H Sticher, Lewis Dreher,)
Lewis Dreher,	Commissioners.
Isaac Betz,	\
G. B. Zulich	Comm'rs Clerk
• • •	

OFFICERS OF THE COURT.

President Judge
Associate de.
Clerk Dep. Att'y Gen.

MEMBERS OF THE BAR

MENBERS OF	THE DAK.
Christopher Loeser, John Bannan,	Orwisburg.
William B. Potts,	***
J. H. Graeff,	. 11
J. W. Roseberry,	90
Charles Whitman,	**
B. W. Cumming,	Pottsville.
B. Bartholomew,	11
F. W. Hughes,	**
C. W. Hegins,	19
E. Owen Parry,	17
J. H. Campbell,	11
J. C. Neville,	17
D. E. Nice.	71
Horace Smith,	"
J. Henry Adam,	**
R. M. Palmer,	24
Howell Fisher,	1)
John P Hobart,	**
Thomas H. Walker,	n :
J K Hamlin,	n
R H Hobart,	11
E O Jackson,	. 1)
A W Leyburn,	Schuylkill Haven.
G. W Matchin,	"
T Rebinson,	27
Samuel Brownwell,	
James A Banks	n "
J K Clement,	Minersville

ESTIMATED POPULATION OF THE PRINCIPAL

Pottsville		7,500
Tamaqna		8,600
Minorwille Port Carbon		3,300 3,200
Port Carbon		
Chuylkill Haven	•	2,000

Orwigsburg,	900
St. Clair.	1,400
New Custle,	300
Llewellyn,	550
Tremont,	800
Donaldson,	700
Pine Grove,	500
Tuscarors,	400
Brockville,	500
Middleport,	400
Hecksherville,	900

AMOUNT OF STATE TAX COLLECTED IN 1847.

Taxes on Merchandize, \$2.658 15 1,803, 83 Tavern Liceuses.

24,461 98

BECEIPTS AND EXPENDITURES OF THE COUNTY, FOR THE YEAR ENDING DEC. 31, 1847.

Received, Tax on real and personal property, &c.
Expenditure for Alms \$36,696 02

Ĥouse,

\$ 5,500 00

Balance of expenditures, inclusive,

30,427 18 35 927 18

Bal. of receipts over expenditures, \$668 84

LIST OF POST OFFICES IN SCHUTLKILL Co. PA.

Post Offices. Post Masters.

H. M. Otto Barre, Jacob Heberling Bearmount, Blythe, J. H. Alter Broad Mountain, W. Reifsnyder Catawissa Valley, J. Eisenhower David Lomison Donaldson, George Seitzinger Fountain Spring, Augustus Heintz William Paine Friedensburg, Hecksherville, Samuel K M Kepner Kepner's Llewellyn Lower Mahantango John Koch Daniel Wiest M'Keansburg Joshua Boyer Middleport Daniel Koch Michael Weaver Minersville Jacob Metz Norwegian C. A. Rahn Orwigsburg Pine Grove Paul Barr Port Carbon Peter Aurand Port Clinton Samuel Boy Pottaville Daniel Krebs Schuylkill Haven Jacob Rahn Benjamin Heilner Tamaqua Upper Mahautango West Penn Charles Maurer Jacob Schwartz

ELECTION RETURNS of Schuylkill County, at the Gubernatorial election, Oct. 1847.

> Shunk, D. 3,720

Irvin, W 2,833

2,833

887 Shunk's majority.

SCRUYLKILL COUNTY MEDICAL SOCIETY George Halberstadt, M. D. President. James S. Carpenter, M. D. Vice President

Thomas Brady, M. D. Treasurer William Housel, M. D. Cor. Secreta John G. Kochler, M. D. Rec. Secretary Most at the Pennsylvania Hall, in Potteville, on the first Wednesday in each month.

POST OFFICE RESULATIONS, AT POTTSVILLE, PA. Sours of closing the Malls, from and after May 1st 1848.

To Philadelphia, Reading and intermediate places, at 8 o'clock, P. M., and 12 o'c. A. M., daily, except Sundays, and arrives daily about 1 o'clock, P. M., & 6‡ P. M.

To New York, Boston, &c., at 8 o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily about 1½ o'clock, P. M., daily except Sundays, and arrives daily exc

except Sundays, and arrives daily about 1½ o'clock, P. M.

To Mauch Chunk, Allentown, Easton, &c., at 9 o'clock, A. M., daily, except Sundays, and arrives daily about 1 o'clock, P. M.

To Beaver Meadow, Wilkesbarre, &c., at 9 o'clock, A. M., daily, except Sundays, and arrives daily about 1 o'clock, P. M.

To Nurthumberland, Sunbury and intermediate placos at 1½ o'clock, A. M., daily, except Sundays, and arrives daily about 8 o'clock, P. M.

To Danville, Williamsport, &c., at 1½ o'clock, A. M., daily, except Sundays, and arrives daily about 2 o'clock, P. M.

To Minersville, Llewellyn and Donaldson, at 1½ o'clock, A. M., daily, except Sundays, and arrives daily about 7 o'clock, A. M., daily, except Sundays, and arrives daily about 7 o'clock, A. M., daily, except Sundays, and arrives daily about 7 o'clock, A. M., daily, except Sundays, and arrives daily at about 7 o'clock, A. M., daily, except Sundays, and arrives daily at about 7 o'clock, A. M., daily, except Sundays, and arrives daily at about

dally, except Sundays, and arrives daily at about 7 o'clock, A. M.

To Pinegrove, Jonestown, &c., to Harrisburg, at 8 o'clock, P. M.. on Mondays, Wednesdays and Fridays, and arrives the same days, about 9 e'clock, P. M.

Post Office Hours.

From 7 o'clock, A. M., till 9 o'clock, P. M., except Sundays, when the office is open one hour, from 12 till 1 o'clock, P. M.

DANIEL KREBS, P. M.

LIST OF POST OFFICES IN THE COAL REGION, OUT OF SCHUTLEILL COUNTY.

Names of Offices. Hazlèton, Luzerne Co., Beaver Mesdows, Carbon Co., Wm. A. Tubbe. Wm. H. Cool, Eleazer B. Collings, Alex. Stedman, D. D. Broadhead, Wilkesbarre, Luzerne Co. Mauch Chunk, Carbon Co., Summit Hill. do. Lehigh Gap do. Wiconisco, Dauphin Co., Thomas Craig, Jr. Henry Schaeffer, Margaret Halback Susquebannah, Linglestown, de. Thomas Barrett Dauphin, Halifax. Thomas Milliken do. J. S. Vanderslice, A. L. Halback, J. H. Wagner, West Hanover, Friendensville, Le high Co., Lancon Valley. Coopersburg, do. Catasaugus, do. Lackawanna, Luzerne Co., Milton Cooper, Nathan Fegley, John Knapp. Edward Lockwood. White Haven, do. do. do. Wyoming, Plainesville, John Brees, Samuel Saylor. Israel Bruniage Moses P. Berry, H. P. Ensang, Nathan Beach, Neecopeck, Greenville, Carbondale, đo. do. do. Reach Haven umberland Co., Joseph Zuern, Wm. Jeppen, Almon Pickett Mahoney, do. Rush, Susquehanna Co., Jackson Valley, do. Charles Campbell,

FOREIGN MAILS.

Notice to the Public, and Instructions to Postmasters—
Post Office Department, March 1st, 1848.

Ist. Letters to any Post Office in Bremen, Hamburg Oldenburg, Hanover, Brunswick, Prussia or Saxony, in Germany, may be sent by United States Mail Steamers, Washington and Hermann, postage unpaid, or pre paid to destination, or pris paid to destination, or pris paid to destination, or pris paid to Bremen only, at the option of the sender.

U. States Postage, if mailed at N. York 24 c. single, if mailed within 300 miles of N. York 29

U. States Postage, if :	nailed over 300	lat Division Staff.			
No additional Postage	of N. York 34 c. single to Bremen.	Major General,	Wm. H. Keim		
Postage to be added, if t	o be pre paid to-6 c. single.	Aid-de-Camp,	Levi Kline		
Hamburg, Oldenburgh,	5 "	Do. Division Inspector	D. W. O'Brien James H Campbell		
Hanover, Brunswick,	\$ "	Div. Quar. Muster			
Prussie.	19 "		ille Artillery.		
Single letters limited to 2d. Writers may pre	to half ounce.	Captain,	B C Christ		
2d. Writers may pre	pay to the following places	1st Lieutenant,	J Vernert		
Inited States postage on	y: which last is advised.	2d Do	William Hoch		
Add to the United State	s postage (see above) if pre-	Washington Artillerists.			
paid: To Leubec	9 c. single.	Captain,	James Nagle		
Austria Coburgh	18 '' 15 ''	1st Lieutenant,	S. S. Nagle		
Darmstadt .	15 "	2d Do. 3d Do.	F. B. Kaercher Edward Rehr		
Baden Gotha	18 " 13 "				
Cassel	10 "	Cavatry — 18t	Troop Light Hurse.		
Bevaria Frankfort on the Mai	54	Captain,	George C. Wynkoop		
Wertemburgh	21 "	1st Lieutenant, 2d Do.	M. Mortimer		
Single letters limited of	marter-ounce, except to Leu imited to half ounce (foreign.)		Daniel Shertle		
3d. In the following ca	ses it may be best to pay the	Port Carbon Artillery.			
United States postage on may pay to destination of	ly. Nevertheless, the writer	Captain,	Peter Aurand		
Postage in addition to	the United States rate (see	1st Lieutenaut, 2d Do.	H. Guiterman Daniel Hillegas		
To Alsona	6 c. single.	3d Do.	Jacob Metz		
Keil	11 "	•	Artillery.		
Eastern towns of Ita Constantinople	ly 18 '' 37 ''	Captain,	Daniel Kitzmiller		
Copenhagen and Det	mark generally 23 ''	Lieutenant,	John Strimpfler		
Stockholm and furt Sweden	39 ♥	National L	ight Infantry.		
Burgen, Christiana an	d furthest part	Captain,	E E Bland		
of Norway St. Petersburgh or (Comstadt 24 "	1st Lieutenant,	I. Severn		
Alexandria, Cairo or Basie, and Switzerlan	Greece 37 "	2d Do.	Frank Pott		
The single letter in Det	ımark, Sweden and Prussia,	3d Do. R. M. Palmer			
limited to half ounce, in the other countries on list		Washington Yeagers.			
No. 3, limited to the quar 4th. On Newspapers a	nd Pambhiets the U. States !	Captain,	M Doerflinger		
masters and that Only, M	to be pre baid: 3 cents per l	1st Lieutenant,	Peter Woll		
if mailed elsewhere than	with inland postage added, New York.	2d Do Peter Goddie			
Memorandum.—Newspi	apers will be rated, aproad,	1st Regt. Schuylkill County Militia.			
THE THE PERSON OF THE PARTY	mu, and it cuveroped omers !	Major,	Daniel Hein		
wise than with narrow be exception to this rule.	inds. Bremen delivery is an	Adjutant,	John Minnig		
Seh Rach letter is to t	e marked or stamped on the	Quarter Master, Joseph Maurer Surgeon, Wilham Link			
back with the name of the	e office sending it, and on the se New York post office. If				
U. States postage only is	pre paid, it is to be marked black. If postage through	2d Regiment. Colonel. Geo D Boyer			
is non maid, it is to be stau	ideg of marked in res " Paig	Colonel, Lieut. Colonel,	Nicholas Jones		
all," and the amount of t	he foreign postage received or, in red. If the letter is un-	1st Major,	Daniel Moyer		
paid, the U. States postage	, in black, is to be stated.	2d Do,	Joshua Boyer		
	som, Post Master General.	Adjutant,	Samuel Bossard,		
MILITARY OF S	CHYLKILL COUNTY.	Surgeon, Dr. M Zulich			
	ylkill Co. Volunteers.	3d Regiment.			
Colonel.	F. M. Wynkoop	Lieut. Colonel,	John W. Heffner		
Lieut. Colonel,	Daniel Larer	lst Major, 2d Do,	— Lentz Jacob Minnig		
1st Major,	J. H. Graeff	Surgeon,	Dr. J G Koehler		
2d do.	Nicholas Fox D. E. Nice	Assist. Surgeon,	A Holmes		
Adjutant, Quarter Master,	John E. Wynkoop	Adjutant,	John Jones		
Surgeon,	Dr G H Brandner	4th Regiment.			
· · · · · · · · · · · · · · · · · · ·	ade Stoff.	Colonel,	John Silver		
Brigadier General,	John M. Bickel,	Lieut. Colonel,	John T Werner		
Brigadier Major.	D. E. Nice	Major, 2d Do,	Bemuel M. Mills Ross Bull		
Brig. Quar. Master,	Michael Weaver	za Do, Adjutant,	Joseph F Seides		
Brig Inspector,	Daniel Krobs.				

H. A. Aechternacht Dr E Chichester J. W. Quarter Mester. Dr. J C Carpenter, John S C Martin, Treasurer. Sargeon, Assist. Surgeon, Dr. Geo. H. Brandner Secretary. Grand Lodge. - United O. O. Fells 5th Regiment. Robert M. Palmer, R W G 8. John F. Struthers Colonel, RRWGS Nicholas McCarty, Major, James Palmer, Richard Duncan. DG8 J. Dintinger, M. H. Goram, R W G Scribe Quarter Master, **Shaeffer** Nicholas McCarty. Treasurer. Surgeon, Dr. Charles Leib. Thomas Johnson, C. M 6th Regiment Meet at Biichter's Hall, last Saturday in Colonel, Isaac F. Davis, April, July, October, and January. Lieut. Colonel, Francis Dengler 1. O. O. Fellows .- Miner's Lodge, No. 30. Major, William Hoch N G V G William Till, Philip Ozman David N. Lake Daniel M. Weist B. Erdman, Adjutant, John I. Jones, Secretary. Quarter Master, J. S. C. Martin, Treasurer. Dr. William Link Surgeon, Meet every Tuesday evening at Town Hell. Mahantango Volunteer Batatlion. I. O. O. Fellows. - Huyden Lodge, No. 44. Daniel Hein David Brill, NG Adjutant, John Minnig Chas. F. Kopitcsh, Y G Joseph Maurer Dr. William Link. Quarter Master. H. Schloss, Secretary. Surgeon, Assis. Beatly. P. Kineler, J. G. Brown Treasurer. BOROUGHS .- POTTS VILLE. Meet at Town Hall every Thursday ave-Pottsville, the county seat, is the largest borough in the county, and the great mert of the Schuylkill Coal trade. It is situated on the I. O. O. Fellows.—Girard Lodge, No. 52. J. L. Yoder, Schuylkill, thirty-five miles from Reading, and is remarkably located, being embosomed L. H. James. Becretery. Doct. B. Becker. in lofty hills which cluster in and around it. - Hans, Assis, Beet'y. It was incorporated in 1823. Daniel Shartle, Treseurer, Population in 1840, 8,200 Meat at Town Hall every Friday evening. 5,000 Do in 1845. I. O. O. Pellows.-Lilly of the Valley Lodge. 7,500 Da in 1848, No. 281. Pottsville is \$6 miles N. W. of Philadelphia, Thomas Foster, in a direct line, and 93 miles by the Philadelphia and Reading Rail Road; 58 miles N. E. of Harrisburg, and 256 miles N. E. of Pitts-HA Aschternacht, L Womaledorff, V G Becretary Jos B. Elliott, Assis Secto Jacob D Rice, Treasurer BORQUEH OFFICERS. Most at Stichter's Hell every Friday eve-Benjamin T. Taylor, Chief Burgess. ning. Town Council. U. O. O. Fellows.—Penn Ledge, No. 3. E. W. McGinnis, Term of service ex-Hiram Saxon, N. Ø. Jas. M. Beatty, James Biackmun. v. g. Hiram Bigg, Wm. Wolf, F. H. Maurer, pires in 1349. Nicholas McGerty, Rec Becky Term of service ex-R M Palmer. Treasurer pires in 1850. Meet at Stichter's Hall every Saturday eve-Daniel Shortle, Hemy Jonkins, Term of service ex-I. O. O. Fellows.—Franklin Encampment, Charles Lord, pires in 1851. Thos. Foster No. 4. John B. Roed. Auditors. Joseph L Yoder, H P Richard Lee G W Mortimer, Daniel Hyebs W Nathan Newnam Nathen Newpam. J W School Directors for Common Schools in Pottsville District. Jahn J Jones. Secretary Daniel Shertie, Treate Benjamin Pomroy, J S C Martin Meet at Town Hall, 1st and 3d Wednesday Benjamin Bannan, George W Slater of each month. Adam Shertle, E Hammer

Societies, Se.

Ančjent York Masons—Pulaski Lodge, No. 216

W.M.

8. W.

hn Saunders

ward T. Taylor,

United O. O. Druids.--Elvin Lodge, No. 18.

Nethen M. Newnam,

John W Shaw,

Jacob D. Rice,

Daniel Shurtle.

N. A.

V. A.

Boot'y

J Dunkhelberger, J. G. Meet at Town Hall. Sons of Temperance.-Pularki Disision, No. 160. W P Isaac Huept, James McAfee, PWP Joseph Coatsworth, Jaçob Embart, Rec. Scribe Daniel H. Leib, Tressurer Meet at Stichter's Hall every Tuesday evening. Sons of Temperance. -- Pottsville Division, No. 52. George W Good, W. W. Bonnell. W A P. W. P. Charles M Ent, George W. Hughes, Rec Scribe Jas W Bowen, Treasurer Meet at Stichter's Hall every Wednesday evening. United Order American Mechanics .- Council No. 55. John M Schemo, V C Charles Ent, Treasurer Henry Schomo, F. 8 Daniel Hill, Jr., Ex. C. Meet at Stitcher's Hall, every Monday eve-Mutual Mechanics Protection. & L W Werman, 8. P. John L Minnig, Jr, J P J L Yoder. R 8 D. A Smith, FR Hugh R Hughes, Treasurer Most at Stichter's Hall every Monday evenine. Good Intent Fire Engine Company. Charles Kaerches, President Vice President Wm W Jones, Thos F Beatty, Rec Sect'y Cer Seciy E B Jackson. Albert Sillyman, Treemprer. Board of Directors. Wm Beidlemen, Charles Kaercher, John H Gable, Alexander Cake. 書 Li Jackson, A Sillyman, William Fox. Potteville Literary Benate. . Peter F Mudey, President Thomas D Kempton, Vice Pres't Chas S Wynkoop, Secretary J. 8 Elliott, Treasurer Meet at Town Hallevery Tuesday evening. Miner's Bank of Potesville, Schuylkill Co. President John Shippen, Bushier Charles Loeser, Isaac Back, Teller Directors:

George H. Rotte,

Thos C Pollock,

James M. Besty,

Benjamin Pott,

John Shippen, Nathan Evans,

Chathe Miller, D. B'Bennett,

Was Mortimer, Jr. Thomas Evans. Gideon Bast. Elijah Hammer, Joseph Richards, Hibernia Benevolent Institution.-Incorporated in 1833. Patrick Pogarty, President Bernard Riley, Vice Pres't Peter F Mudey, Secretary. Michael Daly, Tressurer Benevolent Sons of Erin. Owen Marin, President Vice Pres't John McGinnis. Peter F Mudey, Secretary Michael Riley, Treasurer MINERSVILLE. Minersville is on the West Branch of the Schuylkill, four miles N. W. of Pottsville; it is built in the heart of a beautiful valley, and like the towns in the coal region generally, is remarkably healthy. It is the most important town on the West Branch, and next to Pottsville the largest in the county. It was laid out in 1829, and incorporated as a borough in The increase of its population in the 1831. last three years keeps pace with its early grow th. Population in 1845, 1.265 Do. 3,300 1848. The Mine Hill Railroad, the Iron works of Mr. De Haven, and the mammoth coal works for breaking and screening coal, of Mr. Heilner, are among the conspicuous improvements of the neighborhood. Societies, &c. Independent O. O. Fellows-Secial Lodge, No. 56. Peter Stroup N G D Conaway Sec'y Joseph H Christ V G J T Powell Treas'r Meet at O F Hall, Wednesday evenings. I. O. O. Fellows-Anthracite Lodge, No. 136 Wm H Charington N G & P Burkhert Treas.

Wm Becker V G D K Kressler Sec. Meet at O F Hall, Friday evenings. I. O. O. Fellows-Friendship Encampment, No. 60. John Lazarus C P M A Morgan Treas John Montague H P Peter Stroup J W Wm Baker S W Wm Haynes G Wm Stroup Sec Mact at O. F. Hall, let and 3d Mondays in every month. Ancient York Masons-Minersville Lodge. No. 222. 8 P Gumpert W M T T Jonkins Sec'y Wm Sterner S W 8 Heilner Troas J F G Kumsius J W Meet at O. F. Hall, on or after the first Monday of full moon. United O. G. Fellows-Rising Sun Lodge. No. 10. Semmel Leungan N.G. Wm Dyer Sec'y Eman Hall V.G. Wm Kelly N.F. & Tree

R.B. Duncan. District G M

evenings.

Meet at U G O Fellows' Ball, Satur

U O American Mechanics—Fidelia Council, No. 60.

8 A Philips C
Davis Evans V C
Wm F Kelly Ex C
Meet at Mechanics' Hall, Tuesday evenings.

Danghters of Temperance—Wreath of Friendship Union, No. 52.

Mary Dobbins P S
J W Thurlwell A S
Lucy A Zerby R S
LA Jenkins A R S
Amelia Prevost F 8

An Richards T
Sarah Thurlwell C
Agnes Wythes A C
Martha Jones A G

Meet at U O O Hall, Wednesday evenings. Sons of Temperance—Cave Spring Division, No. 154.

John Morrison W P L M Gabler A R S
Wm Templin W A Miller F S
L E Jones R S Philip Werner Trens
Meet at U O O Fellows' Hall, Monday
evenings.

SCHUTLKILL HAVEN.

Schuylkill Haven is situated on the left bank of the Schuylkill river, four miles below Pottsville, and immediately below the junction of the West Branch. At this point, the West Branch Rail Road connects with the Schuylkill navigation. Schuylkill Haven was laid out in 1829, by Mr. Danl. I. Rhodes and others, and differs from most of the towns in the Coal Region, being surrounded by fertile farms, instead of the rugged and bare mountains of the coal towns generally.

The population is estimated at 2,000.

Societies, Banks, &c.

Farmer's Bank of Schuylkill County.

Absal. Reifsnyder,
Jos. W Cake,
J W Waggonseller,

Teller

Directors:
Hoa George Rahn, Alexander Cumming,
J Henry Adam, F W Hughes,
Absal. Reifsnyder, Henry Saylor,
J Daniel E Will,
Benjamin Lewis,
One vacancy.

Societies.

Stens of Temperance.—Mountain Spring Division, No. 153.

B W Hughes, W. P. Levi Lewis. R. S. R Kaercher, F. S. W Ungerhuhler, c. John Rader, J. 8. J W Waggonseller, Franklin Feger, W. A A. R. S. A Reifsnyder, Treasurer. Francis Shappel, David Gerger, A. C. O. S.

Meet at Temperance Hall every Saturday avening.

United American Mechanics.—Metamora Council, No. 66.

G D Bowman, C

J. M Fager, V. C.
Franklin Fager, Ex C.
A G Quiulin, B. S.
Henry Kipple, F. S.
David Basehore, Treasurer.

Meet at Temperance Hall every Thursday evening.

PORT CARBON.

This town is built on the main branch of the Schuylkill, two miles above Pottsville, and at the termination of the Schuylkill Navigation. The town was laid out in 1223, by several enterprising individuals, among whom may be named Messrs. Abraham Pott, Jacob W. Seitzinger, William Lawton, and Daniel J. Rhoades. The Schuylkill Valley Rail Road, with its numerous lateral roads, connect with this point, and leads a large business to the town.

Es timated population, 2200.

Societies, &c.

In. O. O. Fellows—Schuylkill Lodge, No. 27.

James N Benner, N G Philip May, Sec'y
Wm. H King, V G Sam'l B Young, Tr.

Sons of Temperance—Reliance Division.

Wm Berger, W P Jacob Wentz, R S
Charles Ferabee, W A Rob't Jackson, Treas

ORWIGSBURG.

Orwigsburg is situated in a pleasant, fertile valley, 3 miles S. E. of Pottsville, on the Reading and Sunbury turnpike. The town was laid out by Peter Orwig in 1796, and incorporated into a borough in 1813. As the former county seat, it contains the usual county buildings, an academy, and three churches.—The neighborhood presents many thriving farms and fruitful orchards, the property of honest and industrious German farmers. Estimated population 900.

Societies, &c.

Indepen't O O Fellows—Grace Lodge, No. 157

Daniel K Graeff V G
F B Dreher V G
G D Boyer Sec
Meet at Odd Fellows' Hall, Saturday evenings

Ancient York Masons—Schuylkill Lodge, No. 138.

H Hesser W M John M Bickel Treas
John G Koehler S W Wm B Potts Sec
Wm G Gulden J W

Meet in the Court Buildings, on or after the first Tuesday of full moon

TAMAQUA.

Tamaqua is situated on the Little Schuylkill, 15 miles East of Pottsville, between the Sharp and Locust mountains. The town was first projected and laid out by the Lehigh Coal and Navigation Company in 1829; it is fast growing in importance and population, and presents the appearance of a basy, thriving borough.

Population in 1845, 465.

Societies, &c.

I O O Fellows—Harmony Lodge, No. 86-Jacob Strothers N G Benj. T Hughes C S Christian Carter V G J Harlan Treas Thos. P Simmons R S

Meet on Monday evenings.

Towns, &c.

2. Clair is situated three miles North East of Pottsville, on the Mill Creek Reliroad. The town is rapidly increasing in population, and, from its convenient location, at and sear many large Coal operations, promises to be a thriving, busy place.

Estimated population 1400.

Hicksharville, is a new town on the West West Branch eight miles North West of Pottsville, at and in the immediate vicinity of Mesers. Payne, tiecksher, and the Forest improvement Company's mines. The inhabitants are principally miners.

tants are principally miners. Estimated population 900.

Transact is situated thirteen miles South West of Pottsville; it is a town of recent growth (scarcely two years old) and has been built up entirely through the enterprise of Messrs. Samuel B. Fisher, Robert Morris, Howell Fisher, & Co., the proprietors of the land—these gentlemen having afforded facilities to settlers to the willing disposal of town lots for building, &c. Estimated population 800.

Describers is one mile North, West of Transact

Denaldsen is one mile North West of Tremont, it was laid out by Judge Donaldson, from whom it takes its name. After a series of years spant in developing the resources of the neighborhood, and in drawing together a settlement of industrious miners and mechanics, its enterprising proprietor is now reaping a rich and deserved harvest.

Estimated population 70°C.

Lissallyn is two miles South of Minersville, on the West West Branch of the Mine Hill & Schuyl-kill Haven Railroad. It was originally settled by Welsh miners, attracted thither by the increased growth of the Coal trade in that neighborhood. Estimated population 550.

Estimated population 202.

Pinegrovs is situated on the Swatara between the Kitatinny and Second Mountain, seventeen miles South West of Pottsville. A branch of the Union Canal connects here with a Railroad from the Coal mines on Lorberry Creek; short lateral roads, from various collieries, extending as far up as the main branch of the Swatara, intersect and lead to the main road. the main road.

Estimated population 500.

Brockville is built on the Schuylkill Valley Railroad, nine mites East of Pottsville. The inhabitants are principally miners, employed in the extensive collieries of George II. Potts, Esq., on the estate.

Estimated population 500.

Middleport is situated on the Schuylkill Valley Ballroad, eight miles East of Pottsville. Its trade is altogether local; depending for support upon the Coal trade of the neighborhood. Population, 400.

New Castle is four miles North of Pottsville, on the Sunbury turnpike; it occupies a high, mountainous position and increases but slowly in trade and population.

Estimated population 300.

Tuscarora is twelve miles East of Pottsville, and is situated at the termination of the Schuylkili-Valley Railroad. Present prospects augur an increasing trade.

stimated population 300.

Patterson is situated on the Schuylkill Valley Railroad, nine miles East of Pottsville. Estimated population 200.

LUZERNE COUNTY.

Luzerne is bounded, East by Wayne, North by Wyoming and Susquehanna, West by Lycoming and Columbia, South by Schuylkill and Carbon, and South East by Monroe.— Area 1400 square miles.

The mountains are the Allegheny, broken

into large detached masses and irregular hills, the Lackawannack, Nanticoks, Shawnee, Morsir. Wyoming, Nescopeck and Buck.

The streams are the Susquehanna, or North Branch river, and the Lehigh. The creeks are the Lackawanna, Wapwalopen, Nescopeck. Huntingdon, Shickshinny, Hemlock, Bear and

Luzerue contains 33 townships, 3 borongfis d several thriving villages. Wilkes Barra and several thriving villages. is the Seat of Justice. Carbondale and Wilkes Barre may be noted as depots for the Coal trade of the county, and as deriving a flourish-

ing business therefrom.

The public improvements are the North Branch Canal, the Bailroad of the Lebigh Com-pany from Wilkes Barre to White Haven; and a Railroad from Carbondale to Honesdale in Wavne county-several turnpikes, and a large Bridge over the Susquehanua at Wilkes

Population in 1840. Estimated do 1848,

33,000 40,000

CARBON COUNTY.

Carbon adjoins Schuylkill, and is bounded N. E. by Monroe, N. W. by Luzerne, and S. E. by Northampton and Lehigh. Area 400 square Its principal mountains are Mauch Chunk, Broad, Pokono, Spring, Baldridge, and the Kittatinn, forming its S. E. boundary.

The streams are the Lehigh river and the Aquanchicola, Big, Lizard, Mahoning, Mauch Chunk, Nesquihoning, Quaquake and Hays' Creeks. Carbon contains eight townships and several towns and growing villages.

The public improvements are the works of the Lehigh canal and Slackwater Navigation Company along the Lehigh; the Beaver Meadow Railroad, and the Lehigh Coal and Navigation Company's Railroad, and inclined plane from Summit Hill to Mauch Chunk.

Mauch Chunk is the Seat of Justice. A reat quantity of coal is shipped yearly from the various collieries of the Lehigh Coul and Navigation Company.

Estimated population, 15,000.

NORTHUMBERLAND COUNTY.

Northumberland is bounded on the East and North East by Columbia county, North by Lycoming, West by Union, South by Dauphin, and South East by Schuylkill. Area 500 square miles.

Its mountoins are the Line, Little, Mahanoy, and Big Mountains, in the South; the Shame-kin Hill, in the middle; Montour's Ridge, cel-ebrated for its iron ore, and Limestone Ridge, North of the North Branch; and the Muncy Hills in the extreme North.

The streams are the North and West Branches of the Susquekanna, uniting at the town of Northumberland, thence forming the main Susquehana river, at the western extremity of the county; the creeks are Mahantange, Mahanoy, Shamokin, Roaring, Chillesquaque and Limestone.

This county contains 17 townships, 3 bo-

roughs and several growing towns and villages. Sunbury is the Seat of Justice.

Population in 1840, 20 027
Estimated do 1848, 25,000

DAUPHIN COUNTY.

Dauphin is situated partly in Cumberland Valley, and partly in the Anthracite region; it is bounded E. by Lebanon and Schuylkili,

N. by Northumberland, W. by Perry, Cumberland and York, and S. by Lancaster. Its area is 530 square miles. This county contains 19 townships, 4 boroughs and many growing villages; and is celebrated for the Bitminous, and Anthracite Coals usined from the extensive collieries of the Dauphin Coal Company.

l'opulation in 1340, Estimated de. 1848, 30,118 37,500

Harrisburg is the county seat.

Poetry.

THE MINER LAD.

Nay, don't despise the Miner-lad,
Who burrows like the mole;
Buried alive, from morn to night,
To delve for household coal—
Nay, miner-lad, ne'er blush for it,
Though black thy face be, as the pit!

As honorable thy calling is.
As that of hero lords,
They owe to the poor Miner-lad
The ore that steels their swords—
And perils, too, as fierce as theirs
In limb and life, the Miner faces!

Ye gayest of the gaudy world,
In-gold and silver bright,
Who, but the humble Miner-lad,
Your jewels brought to light?
Where would be your gold and silver,
But for yonder delver?

Ye brows of pearly diadems,
Who sit on lotty thrones,
Smile gently on the Miner-Isd
Who wrought your precious stones.
And rescued from their iron bond
The ruby and the diamond!

Ye instruments of brass, that pierce
The ear with trumpet sound,
Your notes, but for the Minerlad,
Bad slumbered under grounder
Nor imaged bronze, nor brazen gate,
Had graced the trophies of the great!

Thes den't refuse the Minar-lad The crest of bread—his prayer! Beneath that blackest fice of his the billes a heart as fair! The belt of his bare brawny arm All, all our hearts and houses wars!!

KNOW YE NOT THAT YE ARE MEN!

Know ye not that ye are men, Ye laboring throngs of earth?
Must yo be told, and told again,
What truth and toil are worth?

Why do ye look upon the ground? No fire within the eye, When noble-born are all around, And wealth and rank go by?

For have ye not a heart within, And sense and soul as they? And more—have ye not tolled to win The bread ye cat to-day?

Do ye despise your sunburnt hands— So hard and brown with toil, That have made fair the forest laude And turned the forest soil?

What! do ye fear the haughty gaze, Of men in rich array? 'Tis said pride hath not many days, And riches fly away.

Up, heart and hand, and persevere,
And evercome the scorn—
The haughty hate and heartless sneer
Of this world's gentle born!

Fear not—shrink not—to you is given The guardianthip of earth; And on the record book of Heaven Is writ your honest worth!

Honor yourselves! ye honest, true,
And willing, firm, and strong!

Do well whate'er your hands may do.
Though praise may linger long!

A high and holy werk is yours, And yours shall be a fame; That lives for ages, and endures Beyond the hero's name!

Go-with your hand upon the plough.

And the plough beneath the sod; Pity the heart that scorns, and bow
To nothing but your God!

LABOUR.

Ho! ye who at the anvil toil,
And strike the sounding blow,
Where, from the burning iron's breast,
The sparks fly to and fro!
While answering to the hammer's ring,
And fire's intenser glow—
Oh! while ye feel 'tis hard to toil
And sweat the long day through,
Remember, it is harder still
To have no work to do.

Ho! ye who till the stubborn soil,
Whose hard hand guides the plough,
Who bend beneath the summer sun,
With burning cheek and brow—
Ye deem the curse still clings to earth
From olden time till now,
But while ye feel 'tis hard to toil,
And labour all day through,
Remember, it is harder still
To have no work to do.

Ho! ye who plough the sea's blue field—Who ride the restless wave—Beneath whose gallant vessel's keel
There lies a yawning grave;
Around whose bark the wintry winds,
Like fiends of fury rave.
Oh! while ye feel 'tis hard to toil,
And labour long hours through,
Bemember it is harder still
To have no work to do.

Ho! ye upon-whose fevered cheeks
The hectic glow is bright,
Whose mental toil wears out the day,
And half the weary night—
Who labour for the souls of men,
Champions of truth and right;
Although you feel your toil is hard,
Even with this glorious view,
Remember, it is harder still
To have no work to do.

Ho! all who labour—all who strive—
Ye wield a lofty power:
Do with your might—do with your strength—
Fill every golden hour!
The glorious privilege to do,
Is man's most noble dower;
Oh! to your birthright and yourselves,
To your own souls be true!
A weary, wretched, life is theirs,
Who have no work to do.

THE SONG OF STEAM.

Harness me down with your iron bands—
Be sure of your curb and rein;
For I scorn the power of your puny hands,
As the tempest scorns a chain.

How I laugh'd, as I lay conceal'd from sight,
For many a countless hour,
At the childish boast of human might,
And the pride of human power.

When I saw an army upon the land—
A navy upon the seas,
Creeping along—a snail-like band—
Or waiting the wayward breeze;
When I mark'd the peasant faintly reel
With the toil which he daily bore,
As he feebly turn'd at the tardy wheel,
Or tugg'd at the weary oar:

When I measur'd the panting courser's speed—
The flight of the carrier dove—
As they bore a law that the king decreed,
Or the lines of impatient love—
I could not but think how the world would feel,
As these were outstripped afar,
When I should be bound to the rushing keel,
Or chain'd to the flying car.

Ha! ha! ha! they found me at last—
They invited me forth at length—
And I rush'd to my throne with thunder blast,
And laugh'd in my iron strength.
Oh! then ye saw a wond'rous change
On the earth and ocean wide,
Where now my fiery armies range,
Nor wait for wind or tide.

Hurrah! hurrah! the waters o'er—
The mountains' steep decline,
Time—space have yielded to my power;
The world—the world is mine!
The rivers, the sun hath earliest blest,
Or those where his beams decline—
The giant streams of the queenly West,
Or the orient floods divine:

The ocean pales where'er I sweep,
To hear my strength rejoice,
And the monsters of the briny deep
Cower, trembling at my voice.
I carry the wealth and the lord of earth—
The thoughts of the god-like mind;
The wind lags after my flying forth—
The lightning is left behind.

In the darksome depths of the fathemless mine
My tireless arms doth play,
Where the rocks never saw the sun decline,
Or the dawn of the glorious day.
I bring earth's glittering jewels up
From the hidden cave below,
Aud I make the fountain's granite cup
With a chrystal gush o'erflow.

I blow the bellows—I forge the steel
In all the shops of trade;
I hammer the ore and turn the wheel
Where the arms of strength are made;
I manage the furnace—the mill—the mint;
I carry—I spin—I weave;
And all my doings I put into print
On every Saturday eve.

I've no muscle to weary—no breast to decay No bones to be "laid on the shelf;" And soon I intend you may "go to play, While I manage the world by myself. But harness me down with your iron bands Be sure of your curb and rein; For I scorn the strength of your puny hands, As the tempest scorns a chain.

THE MINERS' DOOM.

Written for the London Mining Journal, by the Author of the "Syne Exile's Return." 'Twas evening, and a sweeter balm on earth was never she The sun lay in his gorgeous pomp on ocean's heaving bed, The sky was clad in bright array, too beautiful to For night, like envy, scowling came, and all the scene o'ercast. Tis thus with hope—'tis thus with life, when sunny dreams appear, The infant leaves the cradle-couch to slumber on a The rainbow of our cherish'd love, we see in beauty's eye. with all its mingled hues, alas! to fade That glows wi 'Tis dark, still night, the sultry air scarce moves a leaf or flower; The aspen, trembling, fears to stir, in such a silent hour: The footsteps of the timid hare, distinctly may be heard Between the pauses of the song of night's portentons bird. And in so drear a moment, plods the miner to his toil. Compelled refreshing sleep to leave, for labor's hardest moil;
By fate's rude hand, the dream of peace is broken and destroyed The savage beast his rest can take, but man must be denied! And why this sacrified of rest?-did not the Maker plan .

The darksome hours for gentle sleep, the day for work by man? -but the mighty gods of earth are wiser in their laws-They hold themselves with pride to be their Creator's first great cause.

The miner hath his work begun, and busy strokes resound,
Warm drops of sweat are falling fast—the Coal lies
piled around.
And what a sight of slavery!—in narrow seams compressed Are seen the prostrate forms of men to hew on back and breast, Painting with heat, with dust begrimed, their metare faces see By glimmering lamps that serve to show their looks of misery.

And oft the hard swollen hand is raised to wips the forehead dews;
He breathes a sigh for labor's close, and then his toil renews. And manly hearts are throbbing there—and visions in that mind Float o'er the young and sanguine soul, like stars that rain and shine. Amid the dreariness that dwells within the cavern's gloom
Age looks for youth to solace him—waits for his fruits

Behold! there is a careless face bent from you cab-

to bloom.

ined nook :

Hope you may read in his bright eye—there's future in his look; Oh, blight not, then, the fairy flower, 'tis heartless to destroy The only pleasure mortals know—anticipated joy! Oh, God! what flickering flame is this?—see, see again its glare! Dancing around the wiry lamp, like meteors of the Away, away?—the shaft, the shaft!—the blazing fire flies; Conflusion!—speed!—the lava stream the lightning's wing defies!
The shaft!—the shaft!—down on the ground, and let the demon ride Like the airocco on the blast—volcanoes in their pride!
The choke damp angel slaughters all—he spares no living soul! He smites them with sulphureous brand--he blackens them like coal! The young—the hopeful, happy young—fall with the old and gray,
And oh, great God! a dreadful doom, thus buried to decay Beneath the green and flowery soil whereon their friends remain-Disfigured, and perchance, affive—their cries un-heard and vain? Oh, Desolation! thou art now a tyrant on thy throne. Thou smilest with sardonic lip to hear the shrick and groan!
To see each mangled, writhing corse to raining eyes. displayed-For hopeless widows now lament, and orphans, wail dismayed. Behold thy work! The maid is there, her lover to deplore;
The mother wails her only child, that she shall see no more; An idiot sister laughs and sings—oh, melancholy joy!— While, bending o'er her brother dead, she opes the sightless eye. Apart, an aged man appears, like some sage David oak, Sheding his tears, like leaves that fall beneath the woodman's stroke; His poor old heart is rent in twein-he stands and weeps alone The sole supporter of his house, the last, the best is gone!
This is thy work, fell tyrant!—this the miner's common lot! In danger's darkling den he toils, and dies lamented The army hath its pensioners—the sous of ocean rest When battle's crimson flag is furled, on bounty's downy breast; But who regards the mining slave, that for his country's wealth Resigns his sleep, his pleasures, home, his freedom and his health? From the glad skies and fragrant fields he cheerfully descends, And eats his bread in stenchy caves, where his exintence ends. Aye, this is he whom masters grind, and level with the dust The slave that harters life; to gain the pittance of a crust. Go, read your pillard calendar, the record that wit How many victims of the mine in yonder church-yard dwell.

Hath honor's laurels ever wreatted the despet's, haughty brow?—

Hath pity's hallowed gems appeared when he in Hath pity's hallowed Unhonored is his memory, despised his worthless name— Who wields in life the iron rod, in death no tear can claim!

BUSINESS DIRECTORY.

POTTSVILLE ADVERTISEMENTS.

JOHN G. BROWN, Apothecary and Druggist, Centre Street, near Market, Pottsville, keeps constantly on hand, and is agent for— Townsend's Sansaparilla, for puri-

fying the blood.

Thomson's Compound Syrup of Tar and Wood Naptha—an excellent cure for Consumption. Swayne's Compound Syrup of Wild Cherry. Galvanic Bands and Fluid, for Rheumatism,&c. Scarbrough's Acoustic Oil, for Deafness, &c. Dr. Drake's Panacea, for Consumption, Fever and sques. &c.

and agues, &c.

Dr. M'Lane's Celebrated Patent Vermifuge,
for expelling Worms, &c. &c.

for expelling Worms, &c., &c.
Dr. Kuler's Infant Cordial and Carminative.
Dr. Robey's Brazilian Hair-Curling Liquid.
Hayle's Embrocation, for Bruises, Burns, Sores,

Čuts, &c. Hunt's Liniment, for Rheumatism, Sore Throat, &c.

Jain's Expectorant, for Coughs, Colds, &c.
Wheeler's Tooth-Wash, for cleansing and puri-

fying the Teeth, Gums, &c.
In addition to which may be found a large variety of Perfumery, Soaps, Fancy Articles, &c.; together with Oils, Paints, Glass, and every other Article usually kept in Drug Stores.

J. G. Brows.

CARRIAGE MAKING, Trimming and Painting.—All kinds of Coaches, Carriages, Tilburies, made and repaired in superior style, by M. Jones, near the corner of Market and Fourth Streets, Pottaville.

The best of Workmen employed, and first rate materials used. All work warranted.

A. RUSSELL, (Office near the corner of Mahantango and Adams Streets,) Agent for the Sale of Real Estate, collection of Rents, &c. Also, Agent for the Franklin Fire Insurance Company, of Philadelphia. and Machine Shop —The Subscribers, at their old stand, corner of Rail Road and Callowhill Streets, are prepared to manufacture to order, at the shortest notice, Steam Engines and Pumps, of any power and capacity, for mining and other purposes, Battin's Coal Breaking Machines, with solid and perforated Rollers, as may be

required.
Also, Engines and Blowing Cylinders, with all necessary Machinery for Blast Furnaces. Hot Air Pipes, of the most approved plans, Cup and Ball Joints, and Water Tuyers, of the very best construction. They particularly invite the attention of Iron Masters and parties engaged in the Iron trade, to their large Stock of patters for Bolling Mills, having lately constructed the machinery for several of the largest Mills in the Country, viz.—the Wyoming Mill at Wilkesbarre, the Rolling Mill at the Montour Iron Works, Danville, the Glendon Bolling Mill, Boston, &c. They are fully prepared for this kind of work, together with every variety of general machinery. Of the quality of their work and materials, it is enough to say, that time and experience, the most infallible tests, have amply demonstrated the general character of their engines and machinery.

Orders are respectfully solicited, and will be promptly attended to.

Pottsville. HAYWOOD & SEYDER.
WISTAR A. KIRK, Carriage

Manufacturer, Union St., rear of
American House, Pottsville, Pa.
Rockaways, Chariottees, Tilburies, Gigs,
Sulkies, and York Wagons, always on hand,
for sale, and made to order, with neatness

for sale, and made to order, with neathess and despatch. The work is put up in the best materials and finely finished. All kinds of repairing at short notice, and on reasonable terms.

STOVES! Stoves! Stoves! The undersigned respectfully beg leave to inform the public that they have commenced a Stove Foundry, which is now in full operation, on Coal Street, next to Henry Jenkins' Wire Screen Manufactory in Pottsville, and known as the Pottsville Stove Works: they would, therefore, call the attention of stove dealers of this region, and all others, to their stock of stoves, as they feel confident that they can supply them on as reasonable terms, and with stoves of any pattern, and equal in beauty and material to those purchased at the Philadelphia foundries.

N. B.—All kinds of Castings done to order, at the shortest notice and on the most reasonable HILL & WILLIAMS.

FRANKLIN WORKS.-The Subscribers having associated themscribers naving associated and selves together, trading under the firm of S. Sillyman & Co., for the purpose of carrying on the Foundry and Machine Business at the Franklin Works, Port Carbon, (lately owned by A. G. Brooke,) are now pre-pared so Manufacture to order, at the shortest notice, Steam Engines, Pumps, Coal Breakers, and Machinery of almost any size or description, for mining or other purposes. Also, Bail Road and Drift Cars, Iron or Brass Castings, of any size or pattern.
Orders are respectfully solicited.

SAMUEL SILLYMAN, CHAS. M. LEWIS.

FRANKLIN SHOVEL WORKS. The Subscribers are now prepared to furnish the Collieries and Dealers of Schuylkill County with Shovels of all kinds, at the lowest Philadelphia prices. Attention is particularly called to their Coal Shovels.
Orders for Shovels of any size or pattern

promptly attended to. S. SILLYMAN & Co.

GEORGE W. SLATER, Centre Street, near Market, Pottsville, keeps constantly on hand a full and handsome assortment of Staple and Fancy Dry Goods; comprising Calicos, Chintzes, Mastin De Laines, Oregon Plaids, Flannets, Bread Cloths, Satinets, Cassimeres, Summer Stuffs, Meriacs, Hosiery, Polkas, Checks, Mushus. Long Cloths, Trimmings, Handker-

chien, Shawls, &c. &c.
Panily Groceries of every description, always fresh, and of the best quality.

Wines, Liquors, &c., wholesale and retail, at Philadelphia prices, delivered free of charge

to any part of the county.

Camphone and Fluid Lamps: a full assortment always on hand at Manufacturers' prices. Camphene and Burning Fluid, fresh, and furnished at City prices; Lamp Wicks, &c. &c.
The attention of his country friends is parti-

cularly invited to the above stock.



WILLIAM BRADY, Book-Bind-🚣 er, Mahantango, near Centre, Pottsville. All kinds of Binding promptly executed, on reasonable terms.

COAL SCREENS! Coal Screens!-The Subscriber is extensively engaged in the manufactory of Woven Wire Screens upon an improved and entirely new principle, for which he has secured Letters Patent; and which he confidently believes will be found upon trial, superior to every other Screen in use for durability and all the qualities of a good Screen. They are woven entirely of Wire, and can be made with meshes and threads of any required size and strength.

Wire Weaving of every description will be executed at the shortest notice, and Screens made to every pattern, adapted to the uses for

which Screens are required.

The Subscriber has removed his establishment to Coal Street, near the corner of Norwegian Street, Pottsville. HENRY JENKINS.

INDEMNITY.—The Franklin Fire Insuranc Co., of Philadelphia. Office, No. 1634 Chesnut Street, near Fifth Street. Directors: Charles N. Bancker, Thos. Hart, Tobias Wagner, Samuel Grant, Jacob R. Smith, George W. Richards, Mordecai D. Lewis, Adolphe E. Borie, David S. Brown, Morris Patterson.

Continue to make insurance, permanent or limited, on every description of property, in town and country, at rates as low as are consistent with security.

The Company have reserved a large Contingent Fund, which, with their capital and Premiums, safely invested, afford ample protection to the assured.

The assets of the Company on January 1st, 1843, as published agreeably to an act of Assembly, were as follows: viz.:

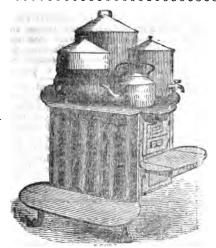
\$890,558 65 Mortgages, Real Estate, 108,358 90 Temporary Loans, 125,459 00 Stocks, 51,563 25 Cash. &c. 45,157 87

\$1,220,097 67

Since the Incorporation, a period of eighteen years, they have paid upwards of one million two hundred thousand dollars, losses by fire; thereby affording evidence of the advantages of insurance, as well as the ability and disposition to meet with promptness, all CHARLES N. BANCKER, President. CHARLES G. BANCKER, Secretary. liabilities.

The Subscriber has been appointed agent. for the above mentioned institution, and is now prepared to make insurance, on every description of property, at the lowest rates. Andrew Russel, Agent.

BOAS SMITH, Agent, Boot and Shoe Store, Centre street, opposite Fox & Mortimer's Hotel, Pottsville. -A large assortment of Boots, Shoes, Trunks, Valices, Carpot Bags, Leather, shoe Bindings, &c., &c., constantly on hand, and which will be disposed of, wholesale and retail, upon the most reasonable terms. Shoes. Boots, Ladies' Slippers, &c., made to order, and reparing done at short notice.



LONG & JACKSON have opened their mew Store, in Centre Street, Pottsville, opposite the White Horse Tavern, with an excellent assortment of Parlor and Cooking Stoves, among which will be found all the old approved styles, and a number of new ones, adapted particularly to the wants of the Coal Region.
They have the pleasure of introducing to this neighborhood Pierce's American Air Tight Cooking Stove, with Brick Top Oven. This Stove, which is of recent invention, bids fair to supersede every other kind now in use. During the past year it has grown into public favor with unprecedented rapidity. Also, Stewart's Summer and Winter Air Tight Cooking Stove. This Stove, which is equally adapted to wood or coal, has received silver medals at the Fairs of the American Institute, New-York; of the Mechanic's Institute, Boston; of the Franklin Institute, Philadelphia; and of the Mechanics' Institute, Wilmington, Delaware. A number of their Stoves are now in operation in this region, and have given entire satisfaction.

Call and examine our assortment of Parlor and Chamber Stoves; they are of all sorts, sizes and prices.

A large and splendid assortment of Sheet Iron, Tin, and Japaned Ware, kept constantly

on hand.

"In Roofing, and all work connected with the Business, executed with neatness and despatch, and at the most reasonable prices.

ORCHARD BREWERY.—George Lauer. The best Porter, Ale, and Beer, manufactured in this establishment; and delivered in large or small quantities to any section of the county. [Mauch Chunk Street.

D. G. YUENGLING, Pettsville Brewery, Mahantango Street, West of the Catholic Clausch.—Superior Ale, Beer, and Porter, in Barrels and Kegs, to be had at all seasons, and delivered to order, free of extra charge, to any part of the county.

FREDERICK MAURER, Coach and Carriage Manufacturer, 3d Street, near Market, Potaville,

has now on hand, and manufactures to order, every kind and description of Waggons, Carriages, Buggies, Tilburies, Gigs, &c., which will be sold cheap, and warranted as represented. The public patronage is most respectfully solicited.

J. O'BRIAN & SON, Rough and Ready Clothing Emporium, Centre Street, between Mahantango and Norwegian Sts., Pottsville, beg leave to call attention to their splendid Stock of Fashionable Ready Made Clothing: consisting in part of—Gent's Broad Cloth Frock and Dress Coats.

Gent's Broad Cloth Frock and Dress Coats.

Do. Spring and Summer Tweed, do. do.

Do. Mohair, Camblet, and Queen's Cloth,

do. do.

Sack Coats of every description, Summer and Winter Wear;

Broad Cloth, Cassimere, & Summer Pants; Merino Satin, Valencia, Silk and Marsoilles Vests;

Gent's & Hose, Suspenders, Shirt Collars, Bosoms, &c., besides a numerous assortment of Notions, that go to make up a Gentleman's Wardrobe: all of which will be sold for CASH, at the lowest Philadelphia prices.

CHARLES F. KOPITZSCH, Soap and Candle Manufacturer, Callowhill Street, near Centre, Pottsville.—All kinds of Brown Soaps, Fancy and Toilette do.; Dipped and Mould Candles, &c., &c., constantly on hand, wholesale and retail.

POTTSVILLE PAPER HANGING Manufactory—John Van Meter, Manufacturer of Paper Hangings, from Philadelphia, resectfully inferms the Public that he has opened a Paper Hanging Store, in Thompson's Row, Market Street, Pottsville. He has en hand every description of Paper Hangingsfor House use: also, an extensive assortment of Window Curtain Paper always on hand, wholesale and retail, at the lowest city prices. He will also do Papering in all adjacent towns, and other places; also, all intermediate places on the entire Rail Road Line between Pottsville and Philadelphia.

J. V. M. returns his thanks to his old friends and customers, for their liberal patronage for many years, and would refer them to his son J. E. Van Meter, No. 54 Chesnut, opposite Strawberry Street, Philadelphia.

None but the best workmen are employed in both establishments.

MARBLE YARD, Market Street; bewisen 2d and 3d, Pottsville.—Every description of Marble always on hand, for Monuments, Tombs, Head Stones, Ornamental Work, and for Building Material.

Red Sand Stones for Base Courses, Platforms, &c., can also be had on the best terms, and at the shortest notice.

All kinds of Work executed with despatch, and in the best style. John E. Blum.

J. CURTIS C. HUGHES, (Graduate of the Philad'a. College of Pharmacy.)
Wholesale and retail Druggist. sicians' prescriptions carefully and accurately compounded.

HUGHES' EXPECTORANT, a certain and immediate cure for Coughs, Colds, Asthma, Influenza, and all Pulmonary Affections. Price 25 cents per bottle. Prepared only by the proprietor, J.C.C. Hughes, Druggist and Chemist, Pottsville.

J. COATESWORTH, Clock and Watch Maker, Centre Street, between Market and Norwegian, has constantly for sale Brass and Wood Clocks of every deecription; Gold and Silver Lever Watches; French, Swiss, and common do.; Jewelry and Fancy articles; Silver ware; German-silver and plated ware; Musical Boxes; Military articles; Musical Instruments, &c., and the Patent Safety Lamp, fluids, &c., Oil Lamps of every description.

Old Gold and Silver taken in exchange for goods, and the highest price allowed.

GUSTAVUS ROSENTHAL, Tobacco and Segar Manufacturer, Market St., near Centre, Pottsville. The best Principe, Havana, and American manufactured Segars, together with every variety of Snuffs, Segar and Snuff Boxes, Pipes, &c., for sale on accommodating terms, wholesale and retail.

BRIGHT & POTT, wholesale and retail Dealers in Foreign and American Hardware, Iron, Nails, Steel, Guns, Paints, Oil, Glass, &c. Town Hall Building, Centre St. Pottsville.

Dr. M. DEPUY, Surgeon Dentist, Market Street, opposite Thompson's Row, Market Street, Pottsville. All Operations warranted.—Teeth inserted, plugged, and Cleansed; and operations performed through the inhalation of Cloroform when desired, without pain.

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Having every facility for executing every description of work in his line promptly and at low rates, he confidently invites the patronage of the public.

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Sole Leather, Upper, Kip, Calfakins, Wool,
Plastering and Deer Hair, Shoemaker's Tools, Findings, Lasts, &c., constantly on hand and for sale.

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ISBARL REINEARD, American House, Centre Street, Pottsville.

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- E. THOMAS & Co., wholesale and retail Dealers in Dry Goods, Groceries, Liquors, &c., corner of Centre and Mahantango Sta., Pottsville.
- H. ROSENGARDEN, Porter Bottling Establishment, Corner Third and Market Sts.—Orders from any per-tion of the county delivered without any extra charge.

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WHOLESALE LIQUOR, WINE and CORDIAL STORE, S. W. corner of Market and Thirteenth Streets, Philadelphia.—The Subscriber respectfully informs the Store and Hotel Keepers of Schuylkill and the adjoining Counties, that he has constantly on hand, a large assortment of Foreign Wines and Liquors in the Custom House Stores entitled to debenture. Also, at his Store, a full assortment of Domestic Brandy, Gin, Rum, Old Monongahela and Rye Whiskey, which he will sell on the most reasonable terms, and solicits a share-of public patrenage. J. R. Cantwell is authorized to receive orders and collect bills for him, which shall be promptly attended to.

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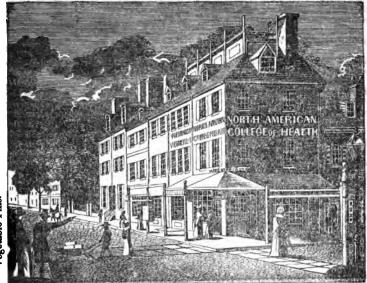
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Market Street, corner of Franklin Place, Philadelphis, will sell at the lowest prices whele-sale and retail.

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Offices devoted expressly for the sale of Wright's Indian Vegetable Pills, wholesale and retail, 169 Race St., Philadelphia; 288 Greenwich St., New-York; and 198 Tremont St., Boston-

WRIGHT'S INDIAN VEGETABLE PILLS.

The general use into which this medicine has come, is, perhaps, its highest recommendation, and it will not be necessary to do more here than to call the attention of citizens and strangers to it.

These Pills are composed exclusively of vegetable materials, combined in such a manner as to increase the greatest amount of virtue in the smallest compass. Hence a smaller quantity is requisite to produce a result, than of any other before the public; thereby saving much of the nauseau and sickness incident to taking medicine in large quantities.

Wright's Indian Vegetable Pills are radically different in their composition from all other preparations, being constructed on the principle that all injurious particles are expelled naturally through the different outlets of the body—the skin, lungs, kidneys, and bowels.—A derangement of one or more of these functions obstructing the healthful discharges, is the cause of the retention of morbific matter, and the appearance of disease. These pills meet the emergency by their expectorant, judorific, diuretic, and cathartic properties, at one operation, opening the several outlets, removing obstructions, and restoring healthy action.

By limiting the dose to one or two Pills, taken every night, or every other night, as the case may be, an Alterative or Aperient is obtained of the best description; being thus adapted to the removal of chronic affections of long standing, at the same time giving tone to the digestton. By increasing the dose, a cathartic is formed, powerful enough for any emergency; but operating with such ease as to rarely disturb the rest of the most delicate patient. An important advantage possessed by this medicine is, that the Pills are good for years, if only kept dry; and being in portable form, they can be carried about the person while travelling, without inconvenience; thereby meeting the necessity which has always existed, for a remedy useful in itself, and accessible at any moment.

Emigrants going South or West, will find these Pills a valuable auxiliary in the preservation of health in an unfriendly climate. As an anti-billious medicine, Wright's Indian Vegetable Pills are as effectual as mercury itself, while they contain not a particle of the non-ious mineral, and leave no mischievous effects behind them.

Among Families, these Pills are held in high repute. By reducing the doze, they are administered to children as well as adults with equal success. They effectually destroy and expel worms, remove freckles, pimples, blotches, or sores, and give a fair complexion. This is done by purifying the blood, with out which, all outward applications are vain. The Pills are singularly well adapted to female complaints in general, and can be taken by all without hindrance to business, restriction as to diet, or danger from exposure to the weather. A fair trial will place the above Medicine on the best footing in the estimation of every one whose mind is not poisoned with professional prejudice.

Price 25 cents per Box, or 6 Boxes for \$1.

CAUTION.—As many spurious imitations are affeat of Wright's Indian Vegetable Pills, carewill be necessary to avoid imposition. The imitations or counterfeits are generally sold by druggists who cannot always be relied on. The safest course is to purchase from the regularly authorized Agents only, whose names are published in the County papers.

LIVER COMPLAINT.—The symptoms are uneasiness and pain in the right side, and soreness upon touch immediately under the inferior ribs, inability to lie upon the side, or if at all able a dragging sensation is produced which seriously affects respiration, causing very often a troublesome cough; together with these symptoms we perceive a coated tongue, acidity of the stomach, deficiency of perspiration, and sometimes a sympathetic pain in the right shoulder, with great drowsiness and depression of spirits, and sometimes sores in the mouth and throat, and very frequently Jaundice and Dropsy. The symptoms if permitted to continue, will eventually produce that most baneful disease Consumption,—in fact a majority of such cases originate from the irritating cause before mentioned. Cathartic medicines must in every case be avoided in the treatment.

JAUNDICE is a disease of which the principal symptom is yellowness of the skin and eyes, with high colored urine, and clay colored faces. It arises from various causes; anything which obstructs the bile in its course so that it is taken into the blood, produces the yellowness of surface; in ordinary cases one or two bottles will effectually remove it, and make the skin clear and healthy; at this season such medicine is invaluable, it removes the cause of all fevers, and the danger of contracing the diseases of Summer and Autumn.

DYSPEPSIA.—The symptoms are very various—those affecting the stomach alone are nausea, heartburn, loss of appetite, sense of fullness or weight in the stomach, sinking or fluttering in the pit of the stomach, sour cructations, sudden flushes, frightful dreams, cold feet, pains in the limbs, through the chest, &c. The sympathetic affections are very diversified.

NERVOUS DEBILITY.—It generally accompanies Liver Complaint and Dyspepsia. The symptoms are fluttering at the heart, a choking or suffocating sensation when in a lying posture, dots or webs before the sight, fever and dull pain in the head, constant imaginings of evil, and great depression of spirits.

All of the above diseases can be effectually

All of the above diseases can be effectually cured, as well as Asthma Disease of the Kidneys, Flatulence, or Pulmonary Diseases arising from the Stomach or Liver, by Doctor Hoofland's Cerebrated German Bitters; for sale, Wholesale and Retail, at the German Medicine Store, No. 278 Bace St., one door above Eighth (South side), Philadelphia; and by respectable dealers generally throughout the Country. They are free from Acids, Quinine, Alors, Mercury, and all Alcoholic Stimulant; all of which are mere paliatives, and are injurious to the system, frequently producing another disease, as can be seen daily in regular practice.

STRUPS are very frequently injurious, causing sour eructations. It is a fact that every one does or should know, that the success, and all the advantages to be derived from the administration of internal medicine [for any discess] depends upon the condition of the sto-

mach as much as the benefit to be derived from food does.

The functions of the stomach are of the utmost importance to every one; it constitutes the source and fountain of life, which is nutrition. No organ possesses such remarkable sympathies, none such remarkable power in modifying every part of the stomach.

modifying every part of the stomach.

This preparation is entirely vegetable, and its power over diseases in digestive, biliary, vascular, respiratory, and nervous system, is not equalled by any other preparation in the United States; as the cures prove after the most skilful physicians had failed. All can be cared who will use them as directed.

be cured who will use them as directed.

These "Bitters" and the Spikenard Ointment will cure any case of Inward Piles. It is a rare occurrence to require more than one bottle of each for the worst cases.

TO COMMANDERS OF VESSELS and SEAFARING MEN.—The greatest discovery of modern times is Pervine & Co.'s Nonparest Washing Soap, as it render sea water perfectly soft. Clothing may be washed at Sea with the same facility as on shore, and made white without the aid of Soda, or any injurious article. It is the cheapest Soap known in the world, as one pound is equal to a pound and a half, or two pounds of the common Rosin or Yellow Soaps, which are principally composed of Rosin or Soda.

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Refined Bottling Cider of superior quality, for sale by the Hogshead or Barrel.

Also, Pickling and Family Vinegar, which is well known for its fine flavor, strength, and purity; and warranted to improve by age.

Shipping orders filled at the shortest notice.

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Being many years practically engaged in the manufactory of Account Books, he is enabled to sell a very superior article at very low prices. Having given uniform satisfac-tion to the Merchants and Public Institutions of this city and state, he begs to refer to some some of them.

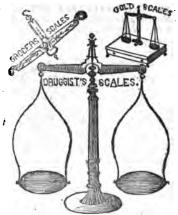
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A Sky Light used, being the first and only one constructed in this city. Miniatures taken equally as well by it in cloudy as in clear

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THE QRIGINAL AND ONLY GENUINE PREPARATION.—Coughs, Colds, Asthma, Bronchitis, Liver Complaint, Spitting of Blood, Difficulty of Breathing, Pain in the Side and Breast, Palpitation of the Heart, Influenza, Croup, Broken Constitution, Sore Throat, Nervous Debility, and all diseases of the throat, breast, and lungs; the most effectual and speedy cure ever known for any of the above diseases is Dr.Swayne's Compound Syrup of Wild Cherry.

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Philadelphia, Sept. 28, 1846. Dr. H. Swayne:—Dear Sir: Having seen the astonishing cure performed on Mr. Thomas by your Compound Syrup of Wild Cherry, I was induced to try it on myself. I was taken with a violent cough, spitting of blood, shortness of breathing, together with violent attacks of asthma; I had overdone myself from exertion which I was not able to perform, which prostrated my system to a great extent.

I commenced the use of your Compound Syrup of Wild Cherry, which gave me almost immediate relief, and I am glad to give my tesimony to all who may be afflicted in a similar It will be well to see that the signature way. It will be well to see that the soft Wild of Dr. H. Swayne is on each bottle of Wild Wm. B. Walton, 13th st, 2 doors from the corner of Willow.

IMPORTANT CAUTION TO THE PUBLIC.is but one genuine preparation of Wild Cherry and that is Dr. Swayne's, the first ever offered to the public, which has been sold largely throughout the United States and some parts of Europe, and all preparations called by the name of Wild Cherry have been put out since this, under cover of some deceptive circumstances, in order to give currency to their sales. By a little observation no person need mistake

the genuine from the false. Each bottle of the genuine is enveloped in a beautiful steel engraving, with the likeness of Wm. Penn thereon, also Dr. Swayne's signature; and as further security the portrait of Dr. Swayne will be added hereafter, so as to distinguish his preparation from all others. Now, if it was not for the great curative properties and known virtues of Dr. Swayne's Compound Syrup of Wild Cherry, persons would not be endeavoring to give currency to their "fictitious nos-trums" by stealing the name of Wild Cherry. Remember, always bear in mind the name of

Dr. Swayne, and be not deceived.

DOCTOR SWAYNE'S VERMIFUGE .-Works!—Dr. Swayne's Vermifuge in square bottles, (being recently changed to prevent counterfeits also to pack to a better advantage) with the following words blown in the glass: Dr. H. Swayne's Vermifuge, Philad.; also enveloped in a beautiful wrapper, bearing the signature of Dr. Swayne with his likeness on each side of the bottle, without which none This remedy is one which has are genuine. proved successful for a long time, and is universally acknowledged by all who have tried it to be far superior to any other medicine ever administered for expelling worms, for sickly or dyspeptic children or adults, convulsions, cholera morbus, dyspepsia in all its forms. It not only destroys worms, but invigorates the whole system; the health is always improved by its use even when no worms are discovered—being very pleasant to the taste [a great advantage over all other medicines of a similar character] children are universally fond of it. It is purely vegetable, and contains nothing injurious to the most delicate constitution.

Remember! Dr. Swayne's Office corner of Eighth and Race streets, Philadelphia, where

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The above valuable medicines are for sale
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See that the name is spelled cerrectly on each bottle, SWAYNE.

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Ur. SWAY COMPOUND SYRUP OF WILD CHERRY

Read the most Remarkable cure of Consump tion ever placed upon record.

Dr. Swayne:-Dear Sir-I feel it a debt of gratitude due to you to offer my testimony in favor of your compound Syrup of Wild Cherry. Some three years since I was violently attacked with cold and inflamation of the lungs, which was accompanied with a very distressing cough, pain in the breast and head; a very considerable discharge of offensive mu-cus from the lungs, especially upon changes of weather, however slight. At first I felt no a-larm about my condition, but was pretty soon convinced that I was rapidly going into con-sumption. I grew daily weaker, and at length was scarcely able to walk about or speak above a whisper, such was the exceeding weakness of my lungs. During this time I had tried various preparations and prescriptions, but found no relief—growing all the time worse. I was advised and persuaded by a dear friend in Wilmington to make a trial of your Syrup of Wiid Cherry. I must confess that previousby I had been prejudiced against patent medi-cines, and am still against those coming out of the hands of empyrics, but understanding your claims to the profession and practice of medicine, and having implicit faith in the saying of one of your agents, a few bottles, and commenced its use. My disease was at this time of 20 or 25 months' standing, consequently was deeply seated. I found, however, considerations of the few standing of th was useful season. Touting, now-ver, commercially relief from the use of the first four or five bottles. But being a public speaker, I frequently attempted to preach with my increasing strength, and thereby ruptured those vessels that had already began to heal; in this

way, doubtless, my cure was greatly retarded. In consequence of acting thus imprudently, I had to use 12 or 15 bottles before I was perfectly restored. I have no question a much smaller number of bottles would have made me sound, but for the above indiscretion.—
The Syrup allayed the feverish habit, did away the distressing cough, put a stop to the
discharge of matter from the lungs, and gave
them and the entire system good health. I have deferred offering this certificate till now, for the purpose of being satisfied with the permanency of the cure, and now that I feel perfectly well, I offer it with pleasure.

REV. J. P. JORDAN. Dublin county, N. C.

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There is but one genuine preparation of Wild Cherry, and that is Dr.Swayne's, the first ever offered to the public, which has been sold largely throughout the United States and some parts of Europe; and all preparations called by the name of Wild Cherry have been put out since this, under cover of some deceptive circumstances, in order to give currency to their sales. By a little observation, no person need mistake the genuine from the false.—Each bottle of the genuine is enveloped with a beautiful steel engraving, with the likeness of Wm. Penn thereon; also Dr. Swayne's signature; and as a further security, the portrait of Dr. Swayne will be added hereafter, so as to distinguish his preparation from all others. Now, if this was not for the great curative prorow, it this was not for the great curative properties and known virtues of Dr. Swayne's Compound Syrup of Wild Cherry, persons would not be endeavoring to give currency to their "fictitious nostrums," by stealing the name of Wild Cherry. Remember, always bear in mind the name of Dr. Swayne, and be not desired. not decieved.

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Important Notice.—Dr. Swayne's Vermifuge, in Square bottles—being recently changed to prevent countorfeits, also to pack to a better advantage—with the following words blown in the glass: Dr. H. Swayne's Vermi-fuge, Pailadelphia; also, enveloped in a besutiful wrapper, bearing the signature of Dr. Swayne, with his likeness on each side of the bottle, without which none is genuine. This remedy is one which has proved successful for a long time, and is universally acknowledged by all who have tried it, to be far superior to any other medicine every administered for ex-pelling Worms, for sickly or dyspeptic child-ren or adults, convulsions, cholera morbus, dyspepsia in all its forms.

Price 25 and 56 cents per bottle.

Remember! no Vermifuge is genuine except that having my likeness one each side of the bottle.

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Eau Lustral Hair Restorative, for removing Baldness, and promoting the growth of the

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Eau Divine De Venus, composed of an Eastern Botanical discovery of surprising efficacy, for rendering the skin soft and fair, as well as imparting a delicate Roscate Hue to the complexion.

Almond Pistachio, and Rose Shaving Creams.—This Cream is acknowledged by all who have used it to be superior to any in use, producing a fine rich lather, neither smarting nor irritating the skin, but softening with its highly emollient quality.

Vegetable Liquid Hair Dye, a chemical re-

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Celebrated Persian or Chinese Powder, for estoring, beautifying, and preserving the omplexion.

Elegantly perfumed Nymph Soap, for soft-ming, beautifying, and preserving the skin.

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"	Ridin	g Coats,	,		•	7 to	10
"	Coato	es, -	,		-	3 to	7
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48	.41	and Fa	ncy	Tweed		3 to	6
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THOMAS FAYE & Co., successor to Isaac Pugh & Co., Manufacturers and Importers of Paper Hangings, No. 118 Chesnut-st., Philadelphia.-On hand, of their own manufacture a large and beautiful variety of Parlor, Hall and Chamber Papers, embracing Gold, Silver, Fresco, and plain styles, of exquisite designs. And, among our recent importations of French Papers, will be found the most splended variety ever imported into the United States-embracing, also, the Gold Silver, Velvet, and Ornamental styles, for Parlors, Halls, and Vestibules, as well as the beautifully Enamelled Light and Plain Patterns, all of which will be sold on the most reasonable terms, wholesale and retail.

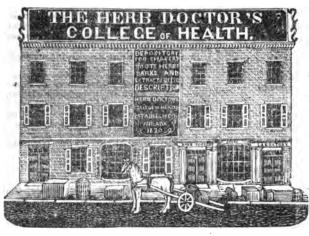
N. B. The attention of country Merchants

and dealors respectfully invited.

THOS. FAVE, WM. HART. A. J. MONTGOMERY.

J. H. EGNER, wholesale Dealer in Wines and Liquors, No. 208 Market-st. Philadelphia.

JOHN HIBLER, wholesale Wine and Liquor Merchant, No. 56 North Third-street, (second door above Arch,) Philadelphia.



"The Art of Healing had its origin in the woods, And the forest is still the best medical school."

An extensive assorment of Roots, Herbs, Barks, and Extracts of every description, put up in 1 and ½ lb. bundles and Jars, wholesale and retail. A liberal discount allowed to those who buy to sell

Patients, either in the city or country, not able to come to the Doctor's Office, may write their symptoms, directed as above, Post Paid, which will receive attention; and Medicines, suited to their case, will be forwarded with full directions.

HORN & ELLIS, Manufacturers of Shoemakers' and Curriers' Tools, No. 109 Race-st., above Third, opposite White Swan Hotel, Philadelphia.

H. & E. also manufacture, and have constantly on hand, a large assortment of Elastic Trusses, Suspending Bandages, &c.

CALVERLEY & CO., Manufacturers of Surgical Pumps, Instruments, Syringes, &c., No. 109 Race, (corner Sassafras street,) above Third-st., (opposite the White Swan Hotel,) Philadelphia.

C. & Co. also manufacture a superior article of Candle Moulds of unequalled finish and

MEYEY & BATTIN, wholesale Grocers, N. W. corner of Second and Noble-st., Philadelphia.

Country produce taken in exchange for Goods at highest market cash prices SAMUEL BATTIN. Enos Meyer,

CHARLES OAKFORD's Fashionable Beaver Hat and Cap Establishment, No. 104 Chesnut-st., Philadelphia.

Officers of the Army and Navy supplied with Dress and Undress Caps.

WILLIAM PATTEN, S. E. corner of Arch and Sixth-st., Philadelphia, has constantly for sale an assortment of Spectacles, Mathematical and Optical Instruments, Thermometers, Spy Glasses, &c.

Spectacles and Thermometers repaired.

THE HERB DOCTOR has removed his office to No. 64 Dock-street, below Philadelphia Exchange; where he may be found to give advice in all diseases, and obtain the following medicines, for

Dyspepsia, Consumption, Liver Complaint, Affection of Kidneys, Headache, Rheumatism. Dropsy, Asthma. Whooping cough, Croup, Scrofula, Running Ulcers, Tetter, Eruptions of Skin. Scald Head, General Weakness, Loss of Appetite, Wakefulness. Pulpitation of heart, Piles.

An extensive assortment of The Herb Doctor's DIAN REMEDIES Always on hand.

UPHOLSTERY AND CABINET WAREHOUSE, No. 205 N. Third-st.—The Subscriber invites the attention of his friends and the public generally to his assortment of Fashionable Furniture, which cannot be excelled in prices, point of style, finish, and durability.

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C. H. BUTT's (formerly B. Tanner) Stere-ograph Safety Blanks, Office, No. 62 Walnut-street, 2 doors above Third st., second floor, Philadelphia. He makes to order Checks, Cashier's Drafts,

Promissory Notes of all kinds,

Bills of Exchange, 2d, 3d, and 4th to Sett, And Blanks of every description liable to fraudulent alteration.

Persons interested will please test these Blanks, and convince themselves of their su perior virtues over oll others.

Stereograph Plates emblematic of the va rious Banks, Merchants, &c., throughout the Union. Xylographic Printing, Manufacturers' Labels at low prices.

GALLAGHER & BERTRAM, Manufacturers of Fancy and Toilet Soaps, and Dealers in. Perfumery, wholesale and retail, Sole Pro-Perfumery, wholesale and retail, Sole Pro-prietors of Velno's Magic Hair Oil, for beautifying, preserving and restoring the hair; Velno's Parisian Fluid, for curling the hair; Dr. Marhof's German Medicated Soap, for removing Tan, Freckles, and all diseases of the Skin; Dr. Marhof's Erasian Soap; the celebrated Walnut Oil Sand Soap, &c. &c. No. 11 North Sixth-street, Philadelphia.

TRON.—M. B. Hanony & Co., Importers of British Bar Iron, &c., No. 44 North Front-street, Philadelphia, bave constantly on hand

Common English Iron:
Best Refined do.
American Rolled do.
Pennsylvania Hammered Iron;
Rolled Rods, rounds and squares;
Juniata Sit Rods;
Swedish and Russia Iron;
Bofler, Fine, and Sheet Iron;
Cast, Shear, and Spring Steel;
Hoop, Band, and Scroll Iron;
Plough Moulds, &c., &c.

Together with every article in their line, for sale to the trade or consumers on the most favorable terms.

M. A. ROOT's DAGUERREOTYPE GALLERY, No. 140 Chesnut-street, Philadelphia.—To this establishment was awarded the first silver medal, by the Franklin Institute, Philadelphia; two silver medals at the last Fairs of the American Institute, New-York; and the first Premium at the last Fair in Boston. All of which can be seen at the Gallery.

which can be seen at the Gallery.

Ladies and Gentlemen visiting Philadelphia, are cordially invited to call at No. 140 Chesnut-street, below 5th, and examine the extensive collection of portraits of distinguished persons and interesting pictures, without activation, whether they desire pictures taken or not. They can then judge for themselves.

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JAMES J. DUNCAN,
ARTHUR THACHER.

IRON STORE, at the North-east corner of Market and Twelfth-street, Philadelphia.

The subscribers have for sale American, English Refined and Merchant Bar Iron, of all sizes; Cast, Sheer, and Spring Steel; Juniata Slit Rods; Double Refined Iron for Car Axles and Propeller Shafts, from 3 to 6½ inches in diameter, Boiler Iron, first and second quality, out to pattern; Angle and T Iron for Boat Ribs; Tires for Locomotives made to any diameter; Pig Iron, Rail Road Iron, &c.

THOMAS & EDMUND GEORGE.

S. F. & D. PAULLIN, wholesale and retail Tobacco Dealers, No. 216 North Second-street, (four doors below the Black Horse Tavern,) Philadelphia.

Constantly on hand, a general assortment of Tobacco, Snuff, Segars, Leaf Tobacco of all kinds, &c., &c.

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L. VALENTINE, Manufacturer of Paper Boxes, No. 20 South 4th-street, below Market, Philadelphia.

Plain and Fancy Boxes of every variety, on hand or made to order, at the shortest notice.

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Tobbing with neatness and dispatch.

CROMPTON's Fancy Paper Box Manufactory, No. 83 South Second-street, Philadelphia.—Made to order and on hand, Seidlitz, Soda, Pearl Powder, Magnesia, Quinine, and Pill Boxes, in every style.

Pill Boxes, in every style.

An assortment of Jewelry, Puff, Pearl Powder, Soap, and other Fancy Boxes, constantly on hand.

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PHILADELPHIA,
General Agents of
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Græfenberg Vegetable Pills,
G. M. Ointment,
Sarsaparilla Com'd,
Children's Panacea,
Eye Lotion,
Fever & Ague Pills,
Health Bitters,
Dysentery Syrup,
Consumptive Balm,

Down's Elixir, for Coughs, Colds, &c. Silver Paste for silvering and polishing Silver, German Silver, and Britannia Ware.

Strengthening Plasters. Also on hand, a large assortment of Fancy Soaps and Perfumery, wholesale and retail.

Cheap and Fashionable Clothing, wholesale and retail, at the Philadelphia Wardrobe, No. 105 Chesnut-st., by Perry R. M'Neille.

WILLIAM TAYLOR & Co., Provision Commission Merchants, 27 and 29 S. Waterstreet, Philadelphia. WILLIAM TAYLOR, THOMAS HILL.

HENRY HUBER, Jr., Manufacturer of Saddlers' and Shoemakers' Tools, Coffee Mills, &c., No. 2 N. Fifth-st., Philadelphia.

EARP & BRINK, Iron & Steel Merchants, Importers and Dealers in Swede, Norwegian, Refined, Cable, and Common English Iron, Hoop, Band, Scroll, Flue, Boiler, Sheet, Small, Round and Square Iron; Axle Iron, Horse-shoe and Nail Rods; Spring, Blistered, Shear, and Cast Steel, &c. &c. No. 117 N. Water Street, and No. 56 N. Delaware Avenue, Philadelphia.

(b) (c) me

Philadelphia Surgeons' Bandage Institute,

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Keeps on hand an assortment of the most splendid colors and shades of Pale. Yellow, Gold, Orange, Crimson, Red, Green, White and Fine Pure Bronze.

Orders received for direct importation at the lowest rates.

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Orders taken for the city and country trade.

T. HESSENBRUCH & Co., Manufacturers, Importers, and Wholesale Dealers in German Hardware, Cutlery, Guns and Pistols, Lead Pencils, &c. No. 1 North Fifth-street, up stairs, Philadelphia.

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Country Merchants will find it to their advantage to call at the above establishment for Store Bills, Cards, &c.

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A full supply of Globes always on hand.

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A general assortment of School, Classical and Miscellaneous Books, Paper, Stationery, &c.

Particular attention is paid to the manufacture of Blank Books, of which we have a large stock always on hand.

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Hame, Beek Pork, Sides. Rhoulders, Lard

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Always on hand, a large assortment of

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Silver and Brass Plating of all kinds done

at shortest notice.

Japanned Signs for sign writers, always on hand.

Lanterns, Tin and Copper Mounted, Plain and Guarded, of every description.

Tin Toys in great variety.

Oil and Lard Lamps. Stationery, consisting of Paper Travers, Wafer Boxes, Inkstands, Card Racks, &c.

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Special attention will be given to Rail Road Castings, and to furnishing Cast Iron for all building purposes, as fronts for shops and warehouses, &c.

A very superior article of Hammered Bar Iron on hand and made to order.

We offer for sale the whole product in Castings and Pig Iron of the following furnaces:
Maria Furnace, Charcoal Iron;

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Also, occasional consignments from other Furnaces and Works, of various qualities of Pig and Bar Iron.

Successors to Sam'l STEPHEN COLWELL, W. DWIGHT BELL, Richards, Dec'd., & THEODORE TREWENDT, T. S. Richards, Dec'd.

CLARENBACH & HERDER, No. 76 South Third-st., opposite the Philadelphia Exchange, Cutlers, Grinders and Polishers of Razors, Patent Shears, Scissors, Knives, Surgical Instruments, &c. Manufacture and offer for sale Tailors' and Barbers' Patent Shears of a superiot quality, at low prices.

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Ingrain Carpets from 25 cts. to \$1 00.

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Latest style Hats and Caps made to

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Birch and Maple chairs constantly on hand.

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Extracting, cleansing, Plugging, Inserting, &c. done with neatness and despatch.

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Operations upon the feet performed in five minutes, without the least pain.

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Warranted fast and bright colors.

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Constantly on hand and for sale at reduced prices, and of superior quality, the following articles, viz.: Coach, Cabinet, Japanners' and Oil Cloth Varnishes; Drying Japan; Boot and Harness Varnish; Brown, White and Red Spirit do.; Transfer do.; Artists', House and Coach Painters' and Varnishers' materials; Putty in qualities: Paints, dry, in oil, and prepared for immediate use; Milliners' Varnish, Glue and Acids: Black Japan for Iron; Adhesive do. for fancy work; Picture and Window Glass; Artists' Colors, dry and in Tubes; Neat's Foot Oil; Gold, Silver and German Leaf; Gold, Silver and Copper Bronze; Glaziers' Diamonds; also, a very superior Shoe Blacking and Writing Ink.

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John H. Brown, Jacob Garretson, JAMES W. BROWN, WILLIAM T. MULFORD.

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The greatest Remedy yet discovered for the cure of Rheumalism, Sprains, Bruises, Swellings, Lumbago, (Pain in the Back.) Frosted Feet, Cramps, Numbness, Stiffness of and Weak Joints, Croup, Head Ache, and all external pains which the human body is subject to.

Reader, are you subject to any of the above complaints, and you will continue to suffer until life becomes burthensome to you, when for the small sum of 25 cents you can obtain permanent and immediate relief by procuring a bottle of DR. VAN BAUM'S RHEUMATIC LOTION, OR MAGIC PAIN EXTRACTOR.

If used as directed, relief is guaranteed, or the

money cheerfully returned.

This Lotion is not an experiment, it has stood the test upwards of 25 years, and never failed in a single instance to give relief. It is emphatically what its name denotes—a magic pain extractor. The Doctor, in his extensive practice in the city of Amsterdam, has prescribed it to thousands of his patients, who, having felt its beneficial effects, and at whose urgent solicitations he was induced to put it before the public, not for pecuniary benefit to himself, but to alleviate human sufferings; he could publish hundreds of certificates of the most respectable citizens of Amsterdam, testifying to its magic cures, but the price of the Lotion being so low as scarcely to pay the expense of putting it up, it will not admit of long and expensive advertisements; he is however willing to risk it upon its own merits, feeling fully assured, that if once tried, no family will do without it. It is designed to become one of the most popular medicines of the day.

In exposure or wet feet, it is one of the greatest preventatives from taking cold in the

world.

For sale, wholesale and retail, by W. Weikel, No. 664 North Third-street, 5 doors below Cherry, Philadelphia, General Wholesale Agent for the U.S.

Single bottles 25 cents, the usual discount to agents.

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It stands unrivalled as a Remedy for Dyspepsia and Liver Complaint.

DR. G. W. ALLEN'S VEGETABLE COMPOUND has never failed in affording immediate relief, and a radical cure in the worst cases of those

The public will bear in mind that this medicine is compounded by a regular Physician, who will be responsible for all bad effects arising from the use of this medicine, if taken according to direction. If any yet remain in doubt, let them read the following flattering recommendation of Dr. Allen's Vegetable Compound, for the cure of Dyspepsia, Nervous Debility, and Bilious Affections, from a well known Chemist.

Charleston, April 13, 1947.

Dr. G. W. Allen: - Dear Sir, - It is with great satisfaction I take this opportunity of adding my experience in the sale and prescribing of your Vegetable Compound, for the cure of Dyspepsia, within the last eighteen months, in more than one hundred cases of the most obstinate nature, many of them being Dyspepsia of from 12 to 15 years standing, and had defied every treatment and climate, at last yielded, and were entirely cured by a few bottles of your invaluable Compound; I never had a medicine in my store which has given such universal satisfaction and made so many perfect cures.

I can say, in no instance where it has been taken for Dyspepsia, that it has ever failed to Respectfully, yours, &c., Dr. J. A. CLEAVELAND, effect a cure.

Druggist and Chemist, 209 King-street, Charleston, S. C. [Copy.]

Remember, the Principal Office is at No. 77 North Eighth-st., five doors below Race, Philadelphia. ALLEN & WARD,

Proprietors.

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Constantly on hand, a splendid assertment of Shirts, Cravats, Handkerchiefs, Gleves, Suspenders, Stocks, &c. &c.

WOOD'S SHEET IRON, made at the Delaware Iron Works, and for sale by the Manufacturor, at his Store, No. 3 North Fifth-st., Philadelphia, where he will be happy to receive the orders of his friends and customers for a supply of the same. Having recently rebuilt and enlarged his 'Works,' on the most improved plan, with new and more perfect machinery, and having had many years' ex-perience in the business, he doubts not that he will be able to produce an article much superior in quality and finish to any heretofore made; and thus hopes to be able to idestroy foreign competition, by the production of an article of Sheet Iron, superior to the English, and in Imitation of the Russian, with that beautiful finish and durable gloss and lustre for which it is so much admired.

Also, made to order, Boiler, Tube, Flue and Shovel Iron—Sugar Mould, Pan and Kettle Iron, and a very superior cleaned surface Sheet Iron, used and highly approved of for articles requiring grinding and polishing.

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Cloths, Cassimers, Sattinets and Vestings. SOLOMON GANS, MEVERS GANS, DANIEL GANS. L. J. LEBERMAN,

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HASTINGS & CO. No. 120 North Fifth-st., above Race, Philadelphia; Manufacturers of Dentists' Gold and Tin Foil: also, Gold Plate and Platina and Gold Wire, which will be sold at the lowest prices.

Scraps made into plate at a trifling charge.

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A large assortment of Looking Glasses.

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Staffs, Varnishes, &c.

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MISCELLANEOUS.

JOSEPH M'MURRAY'S PASSAGE AGENCY,

JOSEPH M'MURRAY'S PASSAGE AGENCY,
ARRANGEMENTS FOR 1848.

B. BANNAN, POTTSVILLE, SOLE AGENT.
OLDEST AND THE BEST ESTABLISHED PASSAGE
OFFICE IN THE UNITED STATES,
THE subscriber respectfully begs
leave to tender his sincere tipants to
his numerous friends and the public,
for the very liberal support he has received for upwards of twenty years,
and solicits a continuation of their
confidence. The despatch with which his passengers
lave hear brought out, and the promptness with which

confidence. The despatch with which his passengers have been brought out, and the promptness with which his very numerous drafts have been paid at the different banks, are, he flatters himself, a sufficient guarantee to the public for the faithful performance of any future contracts entered into with him.

The following are the REGULAR LINE OF PACK-ETS, which sail punctually on their appointed days, by which passengers will be brought out without delay or disappointment, viz.:

disappointment, viz.:
shire names cappans. Days of Salling From N. Y.
Patrick Henry, Delano.
Waterlos Jany. 6 May 6 Waterloo, F.R. Allen, Cornish. 26 etr. 6 ,, Sheridan, Henry Clay, New Ship, Oetr. 6 Feby. 6 June Nye, ,, ;, Garrick, New World, John R.Skiddy, Hunt 26 March July Knight. Luce, 11 " •• » 26 Roscius, Ashburton, Moore. April 6 Decr. 6 Aug. 11 26 W H Allen West Point, Siddons, ,, ,, ,, 31 Cobb, 26 DAYS SAILING FROM LIV'M SHIPS' NAMES. Patrick Henry CAPT'NS. June 21 Oct 21 Feby Deiano. Waterloo, F.R. Allen Cornish, 11 21 26 July 11 Mar. Sheridan. Sheridan, Henry Clay, New Ship, Garrick, New World, John R. Skiddy, Nye, 26 21 ,, ,, Hunt, Knight, April 11 Aug. 11 '' 21 '' 21 '' 26 '' 26 26 21 ,, Luce, Moore, May Jan. 11 " 21 11 21 Sept. 11 Roscius, Ashburton, Howland, W.H.Allen 21 26 21 ,, West Point,

West Point, W.H.Allen "26" 26" 26 "26 "Siddons, Cobb, June 11 Oct. 11 Feb. 11 In addition to the above regular line, a number of splendid ships, such as the Adirondack, Marmion, Rappahanock, Liberty, Sea, St. Patrick, Samuel Hicks, Columbia, and Niagara, will continue to sail from Liverpool weekly in regular succession, thereby preventing the least possibility of delay or detention in Liverpool; and for the accommodation of persons wishing to remit money to their family or friends, 1 have arranged the payments of my drafts on the following banks:

Armagh, Clonmel, Enniskillen, Omagh, Cavan, Ennis, Parsontown, Bandon, Fermoy, Enniscorthy, Skibbereen,

Enniscorthy, Skibbereen, Bandon, Fermov Bandon, Fermoy, Enniscorthy, Skibbereen Belfast, Cootehill, Galway, Slige, Banbridge, Drogheda, Kilkenny, Strabane, Ballymena, Dundalk, Kilrush, Tralee, BallyshannonDungarvan, Limerick, Wexford, Ballina, Dungannon, Londonderry, Waterford, Cork, Downpatrick, Monaghan, Youghal.

Coleraine, Dublin, Mallow, Co. banks

Cork, Dublin, Mallow,
Colerane, Dublin, Mallow,
England.-Messrs. Spooner, Atwood & Co., bankers,
London; and Mr. E. S. Flynn, Liverpool.
Scotland.—The City of Glasgow Bank, and all its

Scotland.—The City of Glasgow Bank, and all its branches and agencies.

5- Passages can also be engaged from Liverpool to Philadelphia, Boston, and Battimore, by the regular packet ships, on application being made personally or by letter post paid addressed to B. BANNAN, Pottsville; JOSEPH McMURRAY, corner of Pine and South str. New York; or Mr. EDMUND S. FLYNN, No. 117, Waterloo Road, Liverpool. [Jani 48-4]

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Our own Country-our own currency-and our own Books.

Our own Country—our own currency—and our own Books.

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TICKNOR'S ARITHMETIC TABLES.
The first named is already introduced into some of the best Academies, and a large number of Schools, where its use has given universal satisfaction, both to Teachers and Paplis. It has the claim of being purely **American* in its character, based upon our own beautiful decimal system of currency; and is considered by Teachers as the beginning of a new era in the beginning of science, by rejecting the old English system (from which nearly all our present Arithmetics are copied) of confining the pupil for years in the process of reducing *pounds to farthings*, and farthings to pounds. This book is strongly recommended by the Hon. Thomas H. Burrowes, the late able Superintendent of, and Father of our Common School System, as one of the best Arithmetics in the Market. It is also recommended by Mr. Olmstead, Professor of Mathematics in Lafayette Cellege; Mr. Stoever, Principal of the Preparatory Department of Gettysburg College; together with several hundred Professors and Teachers in various sections of the country. No Arithmetic published in the United States has such a host of recommendations from practical teachers. See Primary Book, which only contain a portion.

The YOUTH'S COLUMBIAN CALCULATOR, by the same author, has just been issued. It contains 94 pages, with about 900 examples for solution on the slate; it embraces the fundamental rules, Compound Rules, Single and Compound Reduction, Single Rule of Three, of Proportion, &c.

Teachers who have examined this work are of the opi-3. Teachers who have examined this work are of the opinion that itis just what is very much wanted at this time in our District Schools as a Primary Arithmetic for those commencing the study of numbers, for the reason that those Primary Books heretofore in use are either too juvenile or too far in advance for the pupil; in fact, that there has been no suitable Primary Treatise on Arithmetic before the public. It is also believed that this volume will contain a sufficient amount of PRACTICAL ARITHMETIC CO contain a sufficient amount of PRACTICAL ARITHMETIC, as will commonly occur in the transaction of ordinary business—more particularly in the Fenale Department of our District Schools, many of whom seldom learn the use of numbers as far as Reduction or Proportion; and as the work is intended in part for this class of pupils, great care and labour have been bestowed with a view to render every part perfectly plain and easy of comprehension hy the pupil. The calculations are in "our currency," with the use of a few fractions, sufficient for general use, as a knowledge of fractions can be acquired from the larger volume. contain a sufficient amount of PRACTICAL ARITHMETIC, as

volume.

The KEY embraces several hundred examples in Arith-

The KEY embraces several hundred examples in Arithmetic and Mensuration, and other valuable matter for the use of the teacher. The examples are given in full, with notes, explanations, illustrations, demonstrations, &c.

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SILENCE:

That dreadful cough! The Lungs are in danger!
The work of the destroyer hath begun!
The cough of consumption hath in
it a sound of Death!

A RE you a mother? Your darling child, your idel A and earthly joy, is now, perhaps, confined to her chamber by a dangerous cold—her pale cheeks, her thin shrunken fingers, tell the hold disease has already gamed upon her-the sound of her sepulchral ough piercesi

shrunken ingers, tell the hold disease has already gauned upon her—the sound of her sepulchral ough piercesi your soul.

Young man, when just about to enter life, disease sends a heart-crushing blight over the fair prospects of the future—sour hectic cough and feeble limbs tell of your loss of hope, but you need not despair. There is a balm which will heat the wounded lungs, it is SHERMAN'S ALL-HEALING BALSAM.

Mrs. ATTREE, the wife of Wm. H. Attree, Esq., was given up by Dr. Sewall of Washington, Drs. Roe and McClellan of Philadelphia, Dr. Roe and Dr. Mott of New York: Her friends all thought she must die.—She hadevery appearance of being in consumption, and was so pronounced by her physicians—Sherman's Balsam was given and it cured her.

Mrs. GARRABRANTZ of Bul's Ferry, was also cured of consumption by this Balsam when all other remedies failed to give relief—she was reduced to a skeleton. Dr. A. C. Castle, Dentist, 281, Broadway, Las witnessed its effects in several cases where no other medicine afforded relief—but the Balsam operated like a charm. Dr. C. also witnessed its wonderful effects is curing asthma, which it never fails of doing. Spitting blood, alarming as it may be, is effectually cured by this Balsam. It heals the ruptured or wounded blood vessels, and makes the lungs sound again.

Rev. HENRY JONES, 108, Eighth avenue, was cured of cough and catarrhal affection of 50 years standing. The first dose gave him more relief than all the other medicine he had ever taken. Dr. L. J. Beals, 19, Delancy street, gave it to a sister-in-law who was labor: ing under Conumption, and to another sorely afflicted with the Asthma. In both cases its effects were immediate, soon restored them to comfortable health Mrs. LUCRETIA WELLS, 95, Christic street, suffered from Asthma 42 years. Sherman's Balsam relieved her at once, and she is comparatively well, being enabled to subdue every attack by a timely use of this medicine. This indeed is the great remedy for Coughs, Cclds, Spitting Blood, Liver Complaints, and all t

Price 25 cents and \$1 per bottle.

Dr. Sherman's Cough and Worm Lozenges, and Poor Man's Plasters sold as above.

Dr. Shermun's Office is at 406, Nassau street, N. Y Also for sale by the following agents in Schuylkill

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J. S. C. MARTIN,
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H. Shissier, Port Carbon.
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Jacob Kauffman, Lower Mohontongo. Shoener & Garrett, Orwigsburg. Lyon & Rishel, Port Clinton. Levan & Kauffman, Schuylkill Haven.

[Oct2 47-40-eow Paul Barr, Pinegrove.

BUSINESS DIRECTORY ADVERTISEMENTS.

Shipping, transportation. &c.



RATES of Toll and Transportation on the Lehigh and Susquehanna Rail Road

At a meeting of the Board of Managers of the Lehigh Coal and Navigation Company, held on the 15th of December, 1847, it was

Resolved, That the following shall be the rates for toll and transportation on the Lehigh and Susquehanna Rail Road for the year 1843,

On COAL and IRGN ORE, three cents per ton er mile, in addition to thirteen cents per ton

for the planes; but not, in the whole, to exceed fifty cents per ton.

On LUMBER, four cents per one thousand feet, board measure, per mile, in addition to fifteen cents, per one thousand feet for the fifteen cents per one thousand feet for the planes; but not, in the whole, to exceed eighty cent per one thousand feet.

On Iron and Nails, four cents per ton per mile, in addition to fifteen cents per ton for the planes; but not, in the whole, to exceed eighty cents per ton.

On UNENUMERATED ARTICLES, four cents per ton per mile, in addition to eighteen cents per ton for the planes; but not, in the whole, to exceed eighty cents per ton.

The above rates include the charge for mo-tive power and for cars for the transportation of coal, iron ore, lumber, iron and nails; and motive power, but not cars, for the transportation of unenumerated articles.

Motive power will be furnished between the foot of the planes and White Haven.

For detention of cars, at either end of the road, over one day of twelve hours, a demurrege of twenty-five cents per day will be charged upon each car.

Where cars for the transportation of the articles above enumerated are furnished by individuals, there will be allowed in all cases where they pass the whole length of the road, but not otherwise, a deduction of ten cents per ton, or if lumber, per one thousand feet board measure, from the above maximum charges.

Where neither motive power nor cars are furnished by the Company, the rates of toll will be as follows:

On COAL and IRON ORE, one cent and a half per ton per mile, in addition to thirteen cents per ton for the planes; but not in the whole

to exceed twenty-five cents per ton.
On LUMBER, one cent and a half per thousand feet, board measure, per mile, in addition to fifteen cents per thousand feet for the planes; but not in the whole to exceed thirty five cents per thousand feet:

On Iron and Nails, one cent and a half per ton per mile, in addition to fifteen cents per ton for the planes; but not in the whole to ex-

ceed thirty-five cents per ton:
On UNENUMERATED ARTICLES, two cents per ton per mile, in addition to eighteen cents per ton for the planes; but not in the whole to exceed fifty cents per ton.

Published by order of the Board, EDWIN WALTER, Sec'y.

RATES of Toll on the Lehigh Navigation for 1848.

The Toll on all articles passing on the Lo-high Navigation shall be two cents and two thirds of a cent per ton, or per 1,000 meg board measure if Lumber, per fall or 180 of sin feet, provided such tell shall in no case exceed the following rates per mile, viz. :

Half a cent per ton per mile on Common Building Stone, Earth, Sand, Clay and Limestone.

Three-fourths of a cent per ton per mile on Manure and Firewood in Boats

One cent per ton per mile on Bricks, Iron Ore and Pigs, Gypsum, Hay, Straw, Hoop-poles, Staves and Heading, Lime, Marble, Mill-stones, Grindstones, Posts and Rails.

One cent and a quarter per ton per mile on Grain and Seeds of all kinds, Fruit, Potatoes and other vegetables not enumerated, Beer, Porter, Cider, Ale, Salt, Castings, (except machinery,) Scrap Iron, Slate, Charcoal, Shingles, Lath and Bark in boats.

One cent and a half per ton per mile on Flour, Pork, Beef, Fish, Butter, Cheese, Hemp, Flax, Rosin, Pitch, Tar, Turpentine, Pot and Pearl Ashes, Furniture, Household Goods, Glass, Queensware, Crockery, Bar and Rolled Iron and Nails, and all Machinery of cast or wrought metals, Raw and Dry Hides.

Two cents per ton per mile on Wines, Oils, Liquors, Groceries and Leather. Two cents and a half per ton per mile on all articles not enumerated. Mor-, or the Canal,

On Mineral Coal entering the Lehigh Navigation at any point on the Upper Grand Section, one cent per mile per ton throughout the whole Line to Easton or in-termediate places—and on Mineral Coal shipped from any point on the Lower Grand Section, one cent and a quarter per ton per mile.

he tolls on Coal or Lumber on the the Delaware and Raritan Canal, o Division of the Pennsylvania C os raised above their present rates. On Lumber-In rafts from Stoddartsville to Wright's Creek, and in Boats below Wright's Creek, one cent and a quarter per thousand feet, board measure, per mile; on Lumber in rafts below Wright's Creek, two and a half Provided the ris Canal, the Delaware Dalaware cents per thousand feet, board measure per mile. Hemlock lumber in boats, one cent per mile per thousand feet, board measure.

On boats or vessels passing up and down, except for mineral coal or lumber, two cents per mile, in addition to the toll on their

All boats or vessels carrying a load of mineral coal or lumber down, no toll on the boat down or up, if returning empty

The toils are to be charged on the lading of boats, except lumber and logs, by the ton of 2240 pounds, and on the number of thousand feetboard measure of lumber and logs in boats and rafts.

All tolls are to be paid at the first lock the boat or craft may have to pass, where there is a Collector's Office established, for the whole distace to the place of destination. Boats, &c., not passing a Collecter's Office, shall pay at each lock through which they

Offices for the collection of tolls are established at White Haven, Manch Chunk, Kuntz' Ford, Catasauqua, Allentown, Bethlehem and South Easton.

Boats going upwards free of toll under pretence of taking Coal or Lumber, and returning with other articles, shall not be permitted to pass down without first paying the upward toll on the boat.

All boats navigating the canal at night, shall carry a conspicuous light on the bow thereof.

List of the quantities of various articles which are to be estimated as a ton in collecting the tolls, viz .:

Flour, ten barrels and a half.

Whiskey, eight barrels, or two hhds. Wheat, Rye, Indian Corn and Flaxseed, 40

Potatoes and other vegetables, 40 bushels. Oats, 80 bushels. Barley, 50 bushels. Stone, four-fifths of one perch.

Salt Fish, seven bbls. and a half, or fourteen half barrels.

Lumber, 1000 feet board measure.

do. Logs, do. 2,000 3 feet,

3,000 2 feet. Shingles, (5,000 1 foot 6 inches.

1,000 barrel. Staves and handing, 700 hogshed. 500 pipe.

Plastering Lath, 10,000: Rails and Posts, 100: Hoop Poles, 1,000: Cord Wood, half a cord: Bark, one cord: Bricks, five hundred.

Salt, { Liverpool fine, forty-five bushels. All other kinds, thirty-two bushels.

Tar, seven barrels; Rosin, eight bbs.; Oysters, 4,000; Lime, twenty-eight bushels; Window glass, 2,800 feet.

RATES of Freight and Toll on the Little Schuylkill Rail Road.

Merchandise, 5 cents per ton per mile.

Charges at Port Clinton, 40 cts. per ton.

Per Car load through, including Port
Clinton charges, \$3 for a 4 wheeled Car, and \$6 for an 8 wheeled Car.

Flour, 15 cents per bbl. through, including Port Clinton charges. Lime, &c., will be charged 5 cts. per ton per mile, and 50 cents per car for Port Clin-ton charges. Weight estimated at 70 lb. to the bushel.

Lumber, 5 cents per 1000 ft. per mile freight and toll on Pine and Hemlock; loading,

&c. 25 cents per 1000 feet.

Oak lumber, 7 cents per 1000 feet per mile freight and toll; loading, 25 cents er 100**0** ft.

Rail Road Sills, 15 cents per 100 Sills per mile toll, and 15 cents per 100 Sills per mile for freight; loading, 25 cts. per 100 sills.

Iron, Pig, Bar, and Blooms, 5 cents per ton per mile freight and toll.

Port Clinton charges, 30 cents per ton, or 40 cents where the Company's men have to load and unload.

Other Iron to be charged same as Mase, \$1.40 including Port Clinton charges. Brick, freight and toll 12½ cents per mile per 100 brick; loading and unloading. 37½ de.

FREIGHT FOR POTTSVILLE,

And other places.

Goods will be received at the warehouse, Archest. Wharf, Schuylkill, and forwarded daily by the Schuylkill Canal to Reading, Schuylkill Haven, Pottsville, and other points on the canal, at the following rates per ton, of 2,000 pounds, without additional charge for Tolls, Commission, Storage or forwarding:

Plaster, Iron Ore, Limestone, Posts, Rails, Lumber, Bricks, Grindstones, Slate, Hay, and Straw in Bales, \$2 00 Merchandise generally, such as Dry Goods, Groceries, Hardware, Queensware, Salt, Nails, Grain, Flour, Iron in Pigs, Bars, Blooms, or Castings, 2 50 John H. Willits, Agent.

SCHUYLKILL NAVIGATION.

Tolls for 1848.

The Board of Managers have adopted the following rates of Toll to be charged on their Works during the year 1843.

Anthracite Coal.

To be charged per ton of 2,240 pounds; the weight to be ascertained by such means as may be adopted to secure accuracy, and five per cent. allowance to be made therefrom for loss by wastage. The Toll to be computed from Mount Carbon for all coal coming from above that point, and to be charged proportionately for all distances carried on the canal, For the months of March, April,

& May, 40 cts. per ton.
 June & July, 50 "
 Aug. Sept. Oct.
 Nov. & Dec. 65 "

Miscellaneous Articles
To be charged per ton of 2240 pounds.

First Class.

Limestone, Iron Ore, Quarry Spalls, Rough Stone, Unwrought Marble, Sand, Clay, Gravel, Rails, Bark, Lime and Manure, one and a half cents per ton per mile; but no charge will be made for any distance carried beyond twenty five miles.

Maximum Toll on such articles for any distance, thirty-seven and a half cents per ton.

Second Class,

Gypsum, Cordwood, Timber, Lumber, Hoop Poles, Hay and Straw in Bales, Bricks and Bituminous coal.

Between Philadelphia & Mount Carbon, 75 cents per ton.

" " Schwylkill Haven, 72 "

" " Port Clinton, 65 "

Way trade three-fourths of a cent per ton per mile, but no charge shall be made exceeding seventy-five cents per ton.

Third Class.

Merchandize, generally, such as Dry Goods, Earthenware, Salt, Iron, (in pigs, bars, or any stage of manufacture, beyond the ore,) Nails, Flour, Grain, and all other articles not specifically enumerated in classes first and second, two cents per ton per mile on the first twenty miles carried, and three-fourths of a

cent per ton per mile for any additional distance carried beyond twenty miles.

Note.—In all cases where one or more

Note.—In all cases where one or more locks are passed, and the distance carried shall be less than two miles, the charge for toll shall be for two miles according to the class to which the articles carried may belong.

And in all cases where the foregoing rates shall exceed six and a quarter cents per ton on the ascertained tonnage of a vessel for any lock passed below Reading, or four cents per ton above Reading; the tolls shall be charged at these last mentioned rates on all articles.

Toll on empty boats.

Boats intended to be run regularly in the trade on the Line of the Canal, will be licensed to pass the whole or any part of the line, empty, by the payment of ten dollars. The licences will be issued at any collector, and will continue in force during the year 1848, provided the boat so licensed shall pay a sum, in tolls, equal to ten dollars per month.

Boats, not so licensed, will be charged five

Boats, not so licensed, will be charged five cents per mile, unless they carry cargo which

has paid five dollars in tolls.

Any Boat not licensed as aforesaid, and running upon a single level of the works, shall pay for each lock they may at any time pass, four cents per ton on the ascertained tonnage thereof, above Reading, and six and a quarter cents per ton. below Reading.

cents per ton, below Reading.

Masters of boats will be required to exhibit bills of lading, when they are demanded by the collectors or locktenders; and if they do not present correct manifests of their cargoes, they will be charged the extreme limits authorized by the law.

Cars, Boats and Landings.

The Company will furnish Cars, Boats, and Landings, and afford every facility for transporting coal to market at the most reasonable rates, and they are prepared to make contracts with operators and others engaged in the coal trade, and with these who will build and run boats on the Canal, on liberal terms.

Note.—Steam towing at moderate rates, will be provided between the Schuylkill and the Delaware fronts of the city, and also to New-York, via Delaware and Raratan Canal.

List of Articles, the weights of which are to be taken in collectng Tolls. Pounds. Flour, each barrel, 210 Whiskey, each barrel, 300 Whiskey, each hogshead, 1120 Wheat, each bushel, Rye, each bushel, 60 56 Indian Corn, each bushel, 56 Flaxseed, each bushel, 50 Barley, each bushel, 45 Oats, each bushel, Limestone & Stone for building, per p'ch, 3750 Fish, salted, each barrel, 300 Fish, salted, each half barrel, 150 Beef and Pork, salted, each barrel, 280 Bricks, each thousand, 4500 Lime, each bushel, 80 Cord Wood, each cord, 3000 Timber, round & square, each 100 cubic 4000

Pounds.

Boards & Plank	. each	1000 ft., b	oard
measu			. 3200
Shingles, 3 feet,	each 10	00	1120
Shingles, 2 feet,	each 16	100,	. 750
Shingles, 1 foot	6 inche	Leach 1000). 450
Staves, & Headi	ng for l	harrels each	1000. 370
Hoop Poles, each	h 1 60	Jan Comp	560
Staves, for hogsh	ende e	ach 100	. 560
Tar, Pitch, Tur	nowine	and Rosin	each
barrel,	роншно	and boom,	280
Salt, Liverpool f	imo aoc	h hushal	. 50
Salt, coarse, each			. 70
Window-glass, e			80
•			
Table of Distan	ces on	the Schuy	kill Navi
ŧ	zation,	18 48 .	
		From	From
		Phila-	Port
		delphia,	Carbon,
		miles.	miles.
Philadelphia,	-	•	108
Manayunk,	-	6	102
Spring Mill,	-	11	97
Conshohocken.		12	96
Norristown and	Bridge	oert, 16	92
Catfish Dam,	- "	19	89
Port Kennedy.	-	20	88
Valley Force		22	36
Paulding's Dam	, -	23	85
Lumberville,	-	26	82
Phœnixville,	-	28	80
Royersford,	-	34	74
Girard Outlet,	-	37	71
Lawrenceville,	-	38	70
Frisk's Locks,	-	40	6 8
Pottstown Landi	ng,	43	65
Laurel Hill Loc	ks,	45	63
Unionville,	-	47	61
Douglassville &	Port Un	ion, 48	60
Birdsborough,	. • .	53	5 5
Head of Girard	Canal,	59	49
Union Canal,	•	62	46
Reading,	. •	64	44
Folix's Dam,		70	38
Duncan Canal O	utiet,	73	35
Maiden Creek,	-	75	33
Althouse's,	-	77	31
Mohrsville,	-	79	29
Shoemaker's,	-	81	27
Garber's	•	84	24
Hamburg,	•	86	22
Kernsville,	-	.87	21
Port Clinton,		90	18
Cross Cut Outle	ار - الناسات	94	14
Orwigsburg Las Schuylkill Have	aang,	90	9
Schuyikili Have	n,	102	6
Waterloo,	-	103	5
Mount Carbon,	•	106	2
Pottaville,	-	106	. 2
Port Carbon,	• .	108	` 0

LIVINGSTON, HOWARD & Co.,

Express Forwarders & Commission Merchants. Messrs. L., H. & Co. will receive and forward daily per Passenger Train (their Express Car being always in charge of their special messenger) Merchandise of all decrip-tons, Packages, Bundles, Special Bank Notes, &c. Merchants and business men will find thorugh us, the safest, most expeditious and cheapest method for the collection of Drafts, Bills and Accounts.

Packages and Goods delivered at Phonixville, Pottstown, Hamburg, Port Clinton, Schuylkill Haven, and all intermediate places between Philadelphia and Pottsville.

Also, particular attention paid to the purchase and sale of goods, merchandise and produce of all descriptions. Merchants and others in the vicinity of Reading and Pottsville, by consigning their produce to us, may be assured of its being sold at the highest market prices either at Pottsville or Philadelphia.

Offices—Centre-st., Pottsville; E. W. Earl, Reading; 43 South Third-st., Philadelphia; 6 Wall-st., New-York; 8 Court-st., Boston.

PASSENGER TRAINS Between Mount Carbon and Tuscarora.

On and after April 3, 1848.

Leave Mount Carbon at 7 A. M., 11 A. M., and 4 P. M.

Leave Tuscarora at 84 A. M., 124 P. M., & 54 P. M. Fares-- 24 Miles and under, 5 cents. 10 " " 15 " R "

8 20 " 25 10 " 30 12

Stop for Passengers on any part of the Road. No Trains on Sundays.

H. M. WALKER, Superintendant.

PHILADELPHIA, READING & POTTS-VILLE TELEGRAPH COMPANY.

RATES OF CHARGES.

Pottsville to Reading, 1 cent per word. Pottstown, " " " Richmond. 14 " " Philadelphia, Including delivery.

No message to count less than ten words. Address and signature not counted.

Communications ferwarded by Telegraph to New York, Boston, Providence, Washington, Baltimore, Pittsburg, or any other Telegraph Office in the United States.

N. S. Wickersham, President. D. J. Woods, Secretary.

OLD LINE of four horse Stages. RATES OF FARE. To and from Pottsville and the following

places, viz. \$3 00 Northumberland, 2 75 Danville, 2 25 Catawissa

(Leaving immediately after the arrival of the passenger Cars from Philadelphia.) Tremont and Donaldson, leaves daily at

B o'clock, A. M. Minersville, upon the arrival of the cars, 182 St. Clair, 183 do.

Mauch Chunk, 10 o'clock A. M., 2 00 Harriaburg, tri-weekly; 7 o'clock A. M. 3 25

JOSEPH WEAVER, Proprietor.

Table of Freight on Merchandize between various Stations on the Philadelphia, Reading, and Pottsville Railroad.—Commencing April 1st, 1848.

	Distance Miles.	CLASS	TIRST	SECOND	<u> </u>	CL			URTH LASS.		FTH	EOUSI	CARS.	One C
BETWEEN		ŀ	00 2	2000 lbs.	Bhl. flour		200 lbs.	100 lbs.	20 0 0 lbs.	100 lbs.	2600 lbs.	Four wheeled.	Eight wheeled.	arriage or Horse.
Philadelphia & Pottsville.	92	82 (- -	25	30	28	2 7	5 40	4 00	50	5 00	10 00	25 00	4 50
" Schuylkill Haven,			5 5	20	29	27	2 7	39		48			24 25	
" Orwigsburg, .			00 9		28			38		47			23 50	
" Auburn,	83		35 2				2 50			46	4 60		23 00	
" Port Clinton, .	78	1 7	5 2			24	2 4			43			1	4 00
" Hamburg, .	75	1 7	0 1	90	24	23	2 3	34	3 40	42	4 20	8 40	21 00	4 00
" Mohrkville, .	68	1 6	0 1	80	22	22	2 1	31	3 15	39	3 90	7 80	19 50	3 50
" Leizes & Hinnershitz's,		1 5	5 1	75	20	21	2 1	30	3 00	38	3 75	7 50	18 75	3 25
" Reading,	58	1 3	0 1	50	18	18	1 75	28	2 75	33	3 25	7 00	17 50	3 00
" Baumstown, .	49	1 2	5 1	40	17	17	1 70	24	2 40	30	3 05	6 10	15 25	2 50
" Douglassville, .	441	1 2	0 l 1		16		1 60) 22	2 25	28	2 80	5 60	14 00	2 25
" Pottatown,	40		0)1			15				26	2 60	5 20	13 00	2 25
" Phœnixville, .	27 1		0			12				20		4 10	10 25	1 75
" Valley Forge & P. Kennedy	23		0			10		15			1 85	3 70	9 25	
" Norristown,	17		0		11		90				1 60	3 20	8,00	
Consuemocken, .	134		5		10		85				1 40	2 80	7 00	1 25
Pottsville & State Road, .	883		5 2			27		39			4 85			4 40
CONSHERMONER	781	1 7	5,2			24		35		43				4 00
MOTTING WILL	75	1 7	0,1	90		23					4 20			4 00
v. rurge of fort Wenneda	69	16	0 1			22		10-1	3 15		3 90	7 80	19 50	
, inchieving, .	64	1 5		75		21			3 00		3 75	7 50	18 75	
i rousiown,	52	1 3	-,-	50	_	18		26				6 40	16 00	,
pouglassville, .	471	1 2		40	1	16		24				6 00		2 40
" Baumstown, . " Reading.	43		5,1			15		22			2 80	5 60	14 00	
" Leizes & Hinnershitz's	34 27		0 1			13			1 90		2 35	4 70	11 75	
Mohrsville.		_	0 1			12 : 10 :			1 65		2 05	4 10	10 25	
" Hamburg,	24 17	8 7		30		9	L 05 90		1 50 1 30		1 90 1 60	3 80 3 20	9 50	
" Port Clinton,	14	6		70				1 1		1	1 40	3 20 2 80	8 00 7 00	
" Auburn.	9	5		65		7		10		12		2 40		
" Orwigsburg.	6	5		60		6	65			11	1 10		6 00 5 50	1 00
or wikepure.	الـيــ	~~	بن ~~~	UU	101	인	60	1 9	301	771	T 10,	Z 2U	5 50	IT OU

The charges for any distance less than six miles, will be the same as for that distance; or as

between Pottsville and Orwigsburg.
Should any merchandize be sent to, or received from, any of the Turn-outs on the line not stated in the above Table, the freight to be charged thereon will be proportioned to the nearest distance in the left hand column to the distance required: Thus—Require the freight on one ton bar iron, from Pottstown to Port Clinton, 38 miles: as 40 mile, \$1 25-38 miles \$1 19, the required freight: 40 miles being the nearest No. to 38, in the left hand column.

All goods under 1000 lbs. in weight will be charged by the 100 lbs.; over that weight, by the ton of 2000 lbs. When, however, the charge exceeds the freight on half a ton, only that latter amount will be charged. In the First and Second Classes, the freight per 100 lbs. will be 1-10

of that per 2000 lbs.

The columns headed "House Cars" apply when any light bulky articles, such as Furniture, light Dry Goods, Hat Boxes, Charcoal, Hoop Poles, Cedar Staves and Ware, Chair Stuffs, Trees and Vines, Loose Hemp, &c., are transported; and any articles of freight which, in the judgment of the Freight Clerk, should be transported by measurement and not by weight.

No article however small will be taken for less than 25 cents, and every valuable parcel will

be charged higher at discretion.

Gun Powder, Friction Matches, and like combustibles, not taken on any terms.

No Agent or Conductor of the Company is authorized to take charge of Bank Notes or other valuable papers.

Articles extra bulky and troublesome, such as very long timber, large stone, &c. &c. will be

charged extra at discretion.

All furniture designed for transportation must be securely protected by sufficient covering or other packing from liability to injury from fire, weather, chafing, &c. &c. And all Agents are required to see that all furniture is so protected before receiving it.

All goods and merchandize will be at the risk of the Owners while in the Company's Store

Houses, and no responsibility will be admitted for any loss or injury, except such as may arise by fire from the Locomotive Engines, or by any negligence of the Agents of the Company.

Classification of Articles in the five Classes stated in the Fright Table. First Class. Raw Tobacco. Plaster. Limestone. Unwrought Stone, all sorts un-der four cubic feet. Bituminous Coal. Cord Wood. [owner.) State, (to be loaded by the Tiles Sand. Gravel. Clay. Gypsum. Iron Ore. Bricks, (to be loaded by the Owder.) Second Class. Blooms. Lime. Timber Wrought Marble, OVER AIX inches thick. Stone. Posts and Rails. Rosin. Tar. Pitch.
Raw Turpentine. Grindstones. Ice. Ground Plaster. Marble Dust. Guano. Pondrette. Nails and Spikes Iron—Scrap and Pig.

Salt Beef and Pork. Salt Fish, (in barrels.) Lumber. Shingles. Laths, Staves & Hoop-poles. Grain. Marble, under six inches thick. Cotton Waste. Iron Castings, unmanufact'd. Horns and Bones. Selt Petre. Brimstone. Sugar. Molassos, Green Coffee, Samec. **Potatoes** Pourth Class. Manufactured Tobacco (except Cigars.)
Oil, and all Groceries not enumerated, Home Liquors Whiakey. Vinegar. Cider. Ale. Beer. Porter. Steam Engines, Machinery, Manufact'd Iron & Castings. Seeds. Shalbarks. Chesnuts. Provisions, (except Fresh Most, Fresh Fish, Butter and Eggs.) Cheese. Lard. Tallow. Rage. Leather. Rolled Bar, and Hammered Raw Hides Live Stock. Earthen Ware. Foreign Woods.

White and Red Lead.

Hemp, Glue, and Cordage. Hay and Straw, packed in bales (at the owners risk). Hollow Ware. Fruits and Vegetables (except Potatoes) at the owners risk of weather. Hardware. Steel, and all other metals, (except Iron and Lead.) Bran and Ship Stuffs. Fifth Class. Raw Cotton and Wool. Cigars. Fresh Meat and Fresh Fish, (at owners risk of weather.) All perishable Fruits, (at the owners risk.) Dry Goods. Furniture, when by weight. Drugs and Medicines. Foreign Liquers. Wines and Teas. Glass China and Queens Ware. Poultry.
Confectionery.
Books and Stationery. Spirits of Turpentine. Camphine. Burned Coffee. Hats and Caps. Boots, Shoes and Bonnets. Feathers. Trees. Hops. Spices.

> Lbs. 1600

280

			,	Weights of various Articles.	
•			Lbs.	Lbs.	1
Flour, Barrel,	•		212	Bituminous Coal, Bushel, 80	Bark, Cord.
Wheat, Bushel,			60	Ice, " 78	Tar and Pitch, Bbl.,
Rye. "	•		56	Whiskey, Barrel, - 300	Resin & Turpentine, Bbl.
Indian Corn, B	ushel.		56	Whiakey, Hhd., - 1150	Meat, Hhd.,
Barley,	"		45	Salt Fish, BbL, - 300	White Oak Lumber, per
Cake Meal,	46	-	37	Beef and Pork (salt), 280	ft. B. M.
Oats.	44		30	Sand and Gravel, cubic ft., 91	Pine and Hemlock, per
Timothy Seed,	"		40	Charcoal, " 18	ît. B. M.
Clover Seed,	"		62	Limestone, " 171	Shingles, 3 feet each,
Flax Seed,	**		56	Sandstone, " 152	Do. 2 "
Apples,	**		48	Bricks, each, - 5	Do. 1-6 "
Lime.	"		70	Oysters, per 1000, - 350	Spikes, Keg, - 10
Salt (fine),	**		50	Wood, Oak, Cord, - 3200	Fire Brick, each,
Salt (coarse),	"	-	70	Wood, Hickory, Cord. 4100	Coke, Bushel.

Broken Castings.

Sheet and Pig Lead.

Iron.

Flour. Salt

Third Class.

Bark. Pot and Pearl Ashes.

ROCHE & MORGAN's Merchants' Transportation Line, between Philadelphia and Tamaqua

All Goods consigned by this line to Tama-qua Mauch Chunk, Hazleton, Beaver Meadows, Sammit Hill, Cunningham, Berwick, Wilkesbarre, &c. will be immediately forwarded, and shipped through, without the detention heretofore caused by re-loading at Port Clinton.

Warehouse, corner of Broad and Cherry-sts. All Goods should be marked "Care of Roche & Morgan."

TWO DAILY LINES for Pittsburg and Wheeling, via Chambersburg and Bedfard.
Good Intent Mail Line leaves the Dapot, South-West Corner of Eighth and Market-Sts. every night at Twelve o'clock, in splendid Rail Road Cars. Through in forty-four hours.

Good Intent Fast Line; leaves every mora-ing, at half-past seven o'clock. Through in forty-eight hours.

For Seats and other information call at the Old Established Office, S. W. Corner Eighth & Market ats., Philadelphia; and at the White. Swan, Race-st. Peters, Libhart, & Co., Pro-prietors. John W. Colden, Agent.

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Also a large assortment of Medical, Miscellaneous and School Books.

Country Merchants, Booksellers, Banks and Counting Rooms supplied with every variety of Blank Books and Stationery at very low prices.

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B. MARTEN'S Manufacturer of Patant Prem. Stocks and Dies, Screws and Tools, Lathes, Slide Rests, Scales, &c. Models, Paterns and Drawings, 322 Market St., up stairs, Philadelphia.

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A Sovereign Remedy for Dyspepsia, Phthisic, and General Debility. Sold wholesale and retail, by Green & Fletcher, dealers in genuine public medicines, No. 26 S. 6th Street, Philadelphia,

Is a sovereign remedy for Dyspepsia, in many of its forms, such as pain in the stomach, heartburn, habitual costiveness, acid stomach, headache, loss of appetite, piles, night sweats, and even consumption (dyspeptic phthisic,) and asthma, or phthisic attended with derangement of the stomach [or dyspeptic asthma,] difficult breathing, which often results from imperfect digestion (or dyspeptic syspnea,) is relieved by these bitters. In short, their use has been proved in the relief of almost all the symptoms that proceed from a debilitated or atonic condition of the stomach; also in general debility arising from age or from the effects of fever, particularly fever and ague.— Females suffering under any uterine derangement arising from weakness, will find the "Oxygenated Bitters" an excellent remedy, and not surpassed by any medicine now in:

Washington, D. C., June 10; '46. 'Having made use of the "Oxygenated Bitters," prepared by Dr. Geo. B. Green, of Windsor, Vt., and from knowledge obtained of their efficacy in other cases, we cheerfully recom-mend them to the public, believing that they will fully sustain the recommendation of the Proprietor. We hope that this valuable rem-edy may be so generally diffused throughout the country that it may be accessible to all the afflicted.

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J. T. Morehead, U. S. Senator, and formerly Governor of Kentucky.

L. H. Arnold, Member of Congress, and formerly Governor of B. I.
Wm. Woodbridge, U. S. Senator, and formerly
Governor of Michigan.

M. L. Martin, Delegate in Congress from Wis-

consin Territory.

FRENCH & RICHARDS, Wholesle Druggists, North West corner of Tenth and Market Streets, Philada. for the Jackson and Medford Glass Works, have constantly for sale, a general assortment of genuine Drugs, Perfumery, Patent Medicines, Paints, Oils, Varnishes, &c. Persons in want of the above-named articles, are requested to call and examine our stock before purchasing.

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City of Philadelphia, ss.—William M. Spear, of the City of Philadelphia, being duly sworn according to law, deposes and says that he is •in the possession of the original recipe for preparing a Balsam of Wild Cherry for affections of the Lungs, which was given to him by Dr. Wistar, a regularly educated Physician, and that he believes it to be the only one in possession of any person except the said Dr. Wistar himself. W. H. SPEAR.

Sworn and subscribed before me, and city seal affixed on the first day of November, A. D., eighteen hundred and forty-seven.

JOHN SWIFT, Mayor. [L. 8.] A copyright for the Balsam is secured.

AGENTS:-J. W. Penfold & Co., New York; A. McClure & Co., Dr. Herrick & Co, Albany, New York; Jno. F. Prescott, Troy, N. York; Chas. Dyer, Jr., Providence, R. 1.; Redding & Co., Mrs. E. Kidder, Boston, Mass.; James Green, D. Scott, Jr. & Co., Worcester, Mass.; H. & J. Brewer, Springfield, Mass.; G. W. Welch & Co., Hartford, Conn.; J. Gish & Co., Lancaster, Pa.; Dr. A. H. Barnitz, York, Pa.; Reynolds & Co., Leeksville, N. C.; Jno. L. Kidwell, Georgetown, D. C.; Alex. Duval, Richmond, Va.; C. A. Morris & Co., York. Price \$1 per bottle, six bottles for \$5.

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Common English Iron. Best Refined do. American Rolled do. Pennsylvania Hammered Iron. Rolled Rods, rounds and squares. Juniata Slit Rods. Swedish and Russia Iron. Boiler, Flue, and Sheet Iron. Cast, Shear, and Spring Steel. Hoop, Band, and Scroll Iron-

Plough Moulds, &c. &c. Together with every article in their line, for sale to the trade or consumers on the most favorable terms.

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THE CHEAPEST, Largest and best Assortment of Gold and Silver Watches, in Philadelphia, wholesale and retail, 413 Market Street. Gold Lever Watches, full jewelled, 18 car.

cases, \$35 00 Silver do. full jewelled, 18 00 Silver do. 7 jewels, 16 00 Silver Lepines, je welled, Quartiers, good quality, 11 00 7 00 5 00 7 00 Imitation, Gold Spectacles, Fine silver do. 50 3 00 Gold Bracelets, Ladies' Gold Pencils, 1 75 Silver Tea Spoons, set, 4 50 Gold pens, with pencil and silver holder, 1 00

I have also gold and silver Levers, Lepines aed Quartiers, still much cheaper than the above prices. All I want is a call to convince customers that they can save at least from 10 to 20 per cent. by purchasing of me, at LEWIS LADOMUS'

Cheap Watch and Jewellry Store, No. 413 Market St. above eleventh, north side. Nearly opposite Baltimore Depot.

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